THE AMERICAN PSYCHOLOGIST

VOLUME 15 NUMBER 9

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PROCEEDINGS OF THE FORTIETH ANNUAL MEETING OF THE WESTERN PSYCHOLOGICAL ASSOCIATION

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THE fortieth Annual Meeting of the Western Psychological Association was held in San Jose, California, April 21–23, 1960. Approximately thirteen hundred persons registered for the convention. The program included 171 papers, 21 symposia, 3 invited papers, and an invited address by Edwin Boring entitled "Psychology's Trends: Whence and Whither."

The Presidential Address, entitled "Brain Mechanisms in Attention and Perception," was delivered by Donald B. Lindsley.

The Convention Manager was Brant Clark. Joseph B. Cooper was Chairman of the Program Committee, Calvin W. Thomson was Chairman of the Local Arrangements Committee, and James M. Sawrey was Convention Treasurer.

The business meeting was opened with a statement from the Executive Council which reiterated the purpose of the organization to be that of fostering research in psychology through the facilities of an annual convention or other appropriate means. The Council recognized the importance of legislation, certification, employment, etc. to psychologists, but felt that those activities are better implemented through state and national societies. The President announced that the membership had voted to make the office of Secretary-Treasurer appointive by the Executive Council.

F. Theodore Perkins was elected President-elect for the coming year. M. Brewster Smith and Sidney Bijou were elected members of the Executive Council from the Southern and Northern Division of the organization, respectively. Thomas Harrell was appointed Secretary-Treasurer by the Executive Council.

The President for 1960–61 is David Krech.

The 1961 convention site is Seattle, Washington, with George Horton acting as Convention Chairman. The 1962 convention will be in San Francisco.

PROGRAM

PAPER SESSIONS

Experimental

F. THEODORE PERKINS, *Claremont Graduate School*, Chairman

Application of analog computer techniques to the analysis of evoked potentials from the auditory analyzer. EDGAR L. LOWELL, *John Tracy Clinic, Los Angeles.*

Studies of GSR conditioning with deaf children. WILLIAM W. GRINGS, EDGAR L. LOWELL, AND RONALD HONNARD, *University of Southern California and John Tracy Clinic, Los Angeles.*

The relationship between muscular tension and performance on a rotary pursuit tracking task. ROBERT G. EASON AND CARROLL T. WHITE, *United States Navy Electronic Laboratory, San Diego.*

Effects of manometer pressure, fist clenching rate, and intertrial interval on ischemic muscle pain threshold. GENE P. SACKETT, *Claremont Graduate School.*

Effects of different amounts of training on originality. LEONARD LICHT, SEYMORE SIMON, AND IRVING MALTZMAN, *University of California, Los Angeles.*

The persistence of originality training effects. SEYMORE SIMON, LEONARD LICHT, AND IRVING MALTZMAN, *University of California, Los Angeles.*

PAUL F. SECORD, *University of Nevada*, Chairman

Sex strategies in a competitive game under four incentive conditions. W. EDGAR VINACKE, *University of Hawaii.*

A mass effect in decision under risk. JOHN DEL TORTO, *San Francisco State College.*

Word value, word frequency, and visual duration threshold. R. C. JOHNSON, C. W. THOMSON, AND G. FRINCKE, *San Jose State College.*

A comparison of the relative retention of verbal and motor components of a verbal-motor task. FRANCIS LEUKEL, *San Diego State College.*

Stimulus compounding in a two-choice situation with probabilistic reinforcement. R. A. KINCHLA AND T. A. TANNER, *University of California, Los Angeles.*

The relationship between response preference and accuracy in linear interpolation. RICHARD P. WINTERBERG, *Dunlap and Associates.*

WALLACE T. WAIT, *College of the Pacific*, Chairman

Brightness discriminations with constant duration intermittent flashes. ROBERT L. ERDMAN, *International Business Machines, San Jose.*

Word value as related to word frequency. G. FRINCKE, C. W. THOMSON, AND R. C. JOHNSON, *San Jose State College.*

Accommodation, convergence, and size constancy. FRANCIS A. YOUNG, *Washington State University.*

The subject effect in subjective magnitude. F. NOWELL JONES, *University of California, Los Angeles.*

A comparison of response latencies for visual recovery from flash in red and white ambient illumination. RAYMOND E. BERNBERG, *North American Aviation.*

Relative visual latency as a function of retinal locus. M. LICHENSTEIN AND C. T. WHITE, *Navy Electronics Laboratory, San Diego.*

F. NOWELL JONES, *University of California,* Chairman

Correlational analysis of the verbal and performance IQs on the WAIS. DELL R. MILLER, HARVEY F. DINGMAN, AND GARY M. FISHER, *Pacific State Hospital and Fairview State Hospital.*

A comparison of manual and analytic techniques of rotation in a factor analysis of aptitude test variables. ALVIN MARKS, WILLIAM B. MICHAEL, AND HENRY F. KAISER, *Los Angeles State College, University of Southern California, and University of Illinois.*

Intercorrelations of Taylor MAS with certain other personality measures and a physiological measure. MITCHELL M. BERKUN, *HumRRO, Monterey.*

An empirical comparison of factor analysis and latent structure analysis. RICHARD K. EYMAN, CURTIS R. MILLER, AND HARVEY F. DINGMAN, *Pacific State Hospital.*

The control of social desirability: A comparison of three different Q sorts and a check list, all composed of the same items. WILLIAM S. KOGAN AND WILBERT E. FORDYCE, *VA Hospital, Seattle, Washington.*

A dual frame of reference for the study of personality. FLOYD H. ALLPORT AND CHARLOTTE SIMON, *Syracuse University and University of Maryland.*

M. BRUCE FISHER, *Fresno State College,* Chairman

A quantitative study of meaning. J. E. PODELL, *San Francisco State College.*

Relations between interests in thinking and problem solving performances. P. R. MERRIFIELD AND J. P. GUILFORD, *University of Southern California.*

An empirical comparison of *D* distributions derived from normal and nonnormal populations of numbers. WILMER COZENS AND ALFRED JACOBS, *University of Southern California.*

Some effects of variation of profile format on intelligence and sociability judgments. ROBERT E. KNOX AND PAUL J. HOFFMAN, *University of Oregon.*

A study of individual differences in vigilance performance. DONALD N. BUCKNER, ALBERT HARABEDIAN, AND JAMES J. MCGRATH, *Human Factors Research.*

The probability of signal detection in a vigilance task as a function of intersignal interval. ALBERT HARABEDIAN, JAMES J. MCGRATH, AND DONALD N. BUCKNER, *Human Factors Research.*

NEIL D. WARREN, *University of Southern California,* Chairman

Time perception as a function of the goal gradient and magnitude of reward. EDWARD C. SIMMEL, *VA Hospital, American Lake, Washington.*

Dynamic visual acuity: A summary of research. ALBERT BURG, *University of California, Los Angeles.*

Free response psychophysics. ALBERT J. DINNERSTEIN, *Chico State College.*

Voting preference and subliminal stimulation. SAMUEL HIMMELFARB, MICHAEL GOLDSTEIN, AND DIANE DAVIS, *University of California, Los Angeles.*

The effect of intense noise and noxious stimulation upon perceptual performance. WILLIAM HARRIS, *Human Factors Research.*

An experimental study of visual esthetic preferences. MAUREEN BENDICK AND NISSIM LEVY, *University of Portland.*

Clinical

LAWRENCE M. BRAMMER, *Sacramento State College,* Chairman

Borderline diagnoses: An examination of "borderline schizophrenic" territory. FRED J. GOLDSTEIN AND SOHAN LAL SHARMA, *Los Angeles Psychiatric Service.*

Client expectancies about counseling in a university counseling center. VICTOR H. APPEL, *Sacramento State College.*

Change in opinion about mental illness associated with intensive exposure to a neuropsychiatric hospital setting. SIDNEY GELFAND AND LEONARD P. ULLMAN, *VA Hospital, Palo Alto, California.*

Sexual identification in operatively sterile women. EVALYN G. EVERETT, *Napa State Hospital.*

Personality factors of applicants for hospital attendant position. THEODORE F. NAUMANN, *Central Washington College.*

The integration of hospital and community in the psychiatric treatment process. LESLIE NAVRAN, *VA Hospital, Sepulveda, California.*

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Orality, image fusions, and concept formation. HENRY W. VON HOLT, CORD B. SENGSTAKE, BEVERLY C. SONODA, AND WILLIAM DRAPER, *University of Oregon.*

Permutation indexing of the language of dreams. GEORGE R. BACH AND LEWIS D. HART, *Claremont Graduate School and System Development Corporation.*

Therapy group composition: Personal-interpersonal variable. RICHARD L. GROSS, *Los Angeles County General Hospital.*

Prediction of response to group therapy among psychotics. EDWARD F. GOCKA, JOHN B. MARKS, RUFUS L. BUTLER, JAMES W. BOUNDWIN, MARY COLLINS, JAMES M. HAGEN, AND CURTIS M. LYLE, *VA Hospital, American Lake, Washington.*

Parametric conceptualizations of the psychotherapeutic process. S. B. SHAPIRO, *Western Psychological Center.*

Religious affiliation and incidence of bronchial asthma. HERMAN KAGAN, *University of Arizona.*

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Learning and direction of aggression. ERNEST A. THOMPSON AND JOHN B. MARKS, *VA Hospital, American Lake, Washington.*

"Black and white" thinking and emotional disturbance. MARVIN S. BEITNER, *Hacker Clinic.*

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Some conceptual changes in psychotherapy as reflected by the Semantic Differential. K. W. JOHNSGARD AND D. K. NEWMAN, *San Jose State College.*

Five paradigms for group psychotherapy. J. F. T. BUGENTAL, *Psychological Service Associate.*

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Periodic behavior ratings of psychiatric patients. F. HAROLD GIEDT, *VA Hospital, Sepulveda, California.*

The effect of reassurance and test anxiety on the intellectual performance of adolescents. RUTH ANNE GREEN, *Bellevue Public Schools, Washington.*

An evaluation of a demonstration transitional home for post-hospitalized male psychiatric patients. BRUCE OGILVIE AND KEITH JOHNSGARD, *San Jose State College.*

Toward a definite, affirmative role for the group co-therapist. WILLIAM H. ROSEVEAR, *Psychological Service Associates.*

Some notes on the use of drugs for facilitation of group psychotherapy. BETTY GROVER EISNER, *Los Angeles.*

Patient reaction to involuntary change of therapists. MORTIMER M. MEYER AND RUTH S. TOLMAN, *Los Angeles, California.*

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A family diagnostic test. HERBERT NABOISEK, *San Francisco State College.*

A study of the Bender Visual Motor Gestalt Test as a group test for children: Group techniques and proposed scoring system. CAROL E. SMITH AND BARBARA K. KOEGH, *System Development Corporation and Claremont Graduate School.*

The Photos Preference Test as a measure of mental status for hospitalized psychiatric patients. BERNARD MEER, ALBERT H. AMON, AND ROBERT B. FREEMAN, *Stockton State Hospital, California, and University of California, Berkeley.*

The effectiveness of the Bender-Gestalt in differentiating a flight group from an aggressive group of adolescents. ROBERT H. CURNUTT AND LOREN V. COROTTO, *Napa State Hospital.*

Approaches to rating the mute patient. DANIEL ADELSON, *California Department of Mental Hygiene.*

The Dorken and Kral "organic deficit rating" as a measure of intelligence in school aged children. HARRY L. SASLOW, *University of Oregon Medical School.*

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A method for validating screening procedures to identify emotionally handicapped children in the public schools. IRA LEE ZIMMERMAN AND NADINE LAMBERT, *Whittier, California, and California State Department of Education.*

Learning and persistence as related to the need achievement and endurance scales of PPS. LEO A. PIROJNIKOFF, *University of Oregon Medical School.*

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Development of a medical preference inventory. HARRISON G. GOUGH, *University of California, Berkeley.*

A study of interrelationships between interest patterns of USAF employees engaged in different occupations. MARIO LEVI, *McClelland Air Force Base.*

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Learning

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Continued stimulus flash rate and efficiency of conditioning. SAMUEL W. COCHRAN AND DELOS D. WICKENS, *Ohio State University.*

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Short-term retention as a function of the average number of items presented. KENNETH E. LLOYD AND L. STARLING REID, *Washington State University and University of Virginia.*

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Cortical activity and cognitive functioning. LAVERNE C. JOHNSON, GEORGE A. ULLETT, JACOB O. SINES, AND JOHN A. STERN, *United States Navy Medical Neuropsychiatric Research Unit, San Diego, and Washington University School of Medicine, St. Louis.*

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Electrical stimulation of the caudate nucleus can impair visual discrimination in cats. EVERETT J. WYERS, NATHANIEL A. BUCHWALD, JEAN CARLIN, AND ROBERT FARLEY, *University of Southern California, University of California, Los Angeles, and VA Hospital, Long Beach, California.*

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Home observations on physiological responses of hypertensive patients occurring during interviews. B. T.

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Transient changes in affect and blood pressure. C. HARDYCK AND MARGARET THALER SINGER, *University of California School of Medicine.*

Heart rate and skin resistance activity at rest and under stress. JOSEPH C. SPEISMAN, JANET OSBORN, AND RICHARD S. LAZARUS, *University of California, Berkeley.*

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Magnetic fields accompanying transmission of nerve impulses in the sciatic of the frog. J. A. GENGERELLI, W. R. GLASSCOCK, AND N. J. HOLTER, *University of California, Los Angeles, and Holter Research Foundation.*

Retroactive effects of 5–7 diphenyl-1-3-diazadamantan-6-OL (1757I.S.) on maze learning and retention. WILLIAM WESTBROOK, JAMES L. MCGAUGH, AND RICHARD ROSS, *San Jose State College.*

Patterns of stimuli and ulceration. WILLIAM L. SAWREY, *University of Colorado.*

Behavioral tests of rats under chronic reserpine. ANDREW J. KAROLY, *Humboldt State College.*

The effect of reserpine on an unconditioned operant in rats. S. YOUNG, R. TYSON, AND J. V. HARALSON, *Los Angeles State College.*

The effect of reserpine on a conditioned and an unconditioned operant in fish (*Tilapia mozambica*). R. TYSON, S. YOUNG, AND J. V. HARALSON, *Los Angeles State College.*

Social

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Relations between two social perception scores: Accuracy-of-prediction and assumed-similarity. FORREST K. STRAYER, *Human Factors Research.*

Perception of social class and related variables as reflected in an adolescent sample of a transitional society. ROBERT C. WILLIAMSON, *Los Angeles City College.*

An investigation of the influence of group pressure on perception and verbal report. LUTHER B. JENNINGS, *Occidental College.*

The effect of providing knowledge of results on the perceptual defense effect. MICHAEL GOLDSTEIN, *University of California, Los Angeles.*

Developmental characteristics of task-oriented work groups: A program of research. BARRY T. JENSEN, *System Development Corporation.*

Situational determinants of behavior. STANLEY J. TEREBINSKI, *System Development Corporation.*

JOHN S. CAYLOR, *University of California,* Chairman

Sex and social information as variables influencing performance in a minimal social situation. ANNE KOSTANZER, HAROLD NAUMOFF, MANUEL SMITH, AND JOSEPH SIDOWSKI, *San Diego State College.*

Group pressures on reported ESP and on subsequent change in belief. EDWIN G. ANTHONY, HELGE H. MANSSON, AND BERTRAM H. RAVEN, *University of California, Los Angeles.*

Social conformity in supreme court decisions. ARNOLD MEADOW, *University of Arizona.*

The effect of training upon accuracy and variability in judging others. WAYMAN J. CROW AND RICHARD E. FARSON, *Western Behavioral Sciences Institute.*

Some behavioral correlates of judging ability. VICTOR B. CLINE AND JAMES M. RICHARDS, JR., *University of Utah.*

Patterns of expectations in the doctor-patient relationship. ANDREW DESKINS, CHARLES C. HERBERT, FRANK GORMAN, MARGARET THALER SINGER, AND G. HAMILTON CROOK, *Kaiser Foundation Research Institute.*

Personality

GORDON W. BRONSON, *Mills College,* Chairman

Ideology of social sorority and fraternity members compared with nonmembers. WALTER T. PLANT, *San Jose State College.*

Field dependence, manifest anxiety, and sociometric status in children. IRA ISCOE AND JOYCE ANN CARDEN, *University of Texas.*

Test taking attitude and specific temperament factors. SEYMOUR LEVITAN AND ALFRED JACOBS, *University of Southern California.*

The effects of individual differences and hostility arousal on the expression of hostility in a verbal conditioning situation. WILLIAM F. O'DONNELL, *Langley-Porter Neuropsychiatric Institute.*

A personality correlate of individual differences in responsitivity to verbal conditioning as obtained by three examiners. LEONARD KRASNER, LEONARD P. ULLMANN, ROBERT L. WEISS, AND BEVERLY J. COLLINS, *VA Hospital, Palo Alto, California, and Stanford University.*

Experimental arousal of feelings of depression. ALFRED JACOBS, LUBOR CAPEK, AND J. P. MEEHAN, *University of Southern California.*

VICTOR B. CLINE, *University of Utah,* Chairman

The relationship between self-acceptance and acceptance of others: A learning theory analysis. RICHARD M. SUINN, *Whitman College.*

Some suggestions for a comprehensive motivational theory of behavior. NORMAN W. HICKMAN, *Lewis and Clark College.*

Temporal relating self-relations with the future. T. W. MILBURN AND G. F. J. LEHNER, *USNOTS, China Lake, California, and University of California, Los Angeles.*

Self-esteem as a determinant of conformity behaviors. STANLEY COPPERSMITH, *Wesleyan University.*

The interaction between verbal and nonverbal behavior. O. IVAR LOVAAS, *University of Washington.*

Positive choices and decision time. E. J. LOTSOF, *University of California, Los Angeles.*

Comparative

JOSEPH A. GENGERELLI, *University of California,* Chairman

Problems in the behavioral comparison of species. JOHN V. HARALSON, *Los Angeles State College.*

Analysis of the pattern of sexual behavior in the male rhesus monkey (*Macaca mulatta*). ROBERT E. KUEHN, *University of California, Berkeley.*

Sexual behavior in three inbred strains of mice. THOMAS E. MCGILL, *University of California, Berkeley.*

Testosterone and two measures of activity in castrated male rats. KEITH J. HAYES, *College of Medical Evangelists.*

A study of the development of eating in chicks. PETER K. SHRECK AND GRAHAM M. STERRITT, *University of Colorado and University of Colorado Medical Center.*

A study of response-shift in discrimination learning. ISABEL BIRNBAUM AND GILBERT M. FRENCH, *University of California, Berkeley.*

Developmental

ROY K. HEINTZ, *Long Beach State College,* Chairman

The film test for understanding behavior. DEL SCHALOCK AND JACK EDLING, *Oregon State College and Oregon College of Education.*

A qualitative description of how children deal with a conflict situation. ELIZABETH A. BEALE, *Hacker Clinic.*

Incentive value of social stimuli for preschool children. FRANCES DEGEN HOROWITZ, *Southern Oregon College.*

The effect of withdrawal of positive reinforcement on an extinguishing response in young children. DONALD M. BAER, *University of Washington.*

Experimenter effects on sex-typed behavior of young children. L. J. BORSTELMANN, *Stanford University.*

Q sort descriptions of five-year-olds by their parents. GENE R. MEDINNUS, *San Jose State College.*

SYMPOSIA

Multidisciplinary Points of View in the Care of the Mentally and Emotionally Atypical Child

LOUIS P. THORPE, *University of Southern California,* Chairman

Participants: BELLE DUBNOFF, *Belle Dubnoff School for Educational Therapy;* VIRGINIA JOHNSON, *Los Angeles;* CECIL LEVIN, *Tulare Board of Education;* MARSHALL SCHECHTER, *Reiss-Davis Clinic;* AND STANLEY W. WRIGHT, *University of California Medical Center.*

Machine Literature Search: Human Factors

ROGER J. WELDON, *University of Arizona, Chairman*

Participants: ROBERT W. MITCHELL, *University of Arizona;* ROBERT F. SIMMONS, *System Development Corporation;* FRANK N. MARZOCCO, *Ramo-Wooldridge;* AND ANDREW L. COMREY, *University of California, Los Angeles.*

Teaching Machines

EDWARD FRY, *Loyola University, Los Angeles,* Chairman

Participants: JOSEPH RIGNEY, *University of Southern California;* SIDNEY PRESSEY, *University of California, Los Angeles;* EVAN KEISLAR, *University of California, Los Angeles;* AND LESLIE BRIGGS, *American Institute for Research.*

Unstructured Small-Group Approaches to Human Relations Training

RICHARD E. FARSON, *Western Behavioral Sciences Institute,* Chairman

Participants: RICHARD P. BARTHOL, *University of California, Los Angeles;* FRED MASSARIK, *University of California, Los Angeles;* AND JEROME REISEL, *University of California, Los Angeles.*

Discussants: ALEX BAVELAS, *Stanford University;* AND WILLIAM C. SCHUTZ, *University of California, Los Angeles.*

Conceptions of Psychological Health and Their Research Implications

ALICE BRESLOW, *San Francisco State College,* Chairman

Participants: FRANK BARRON, *University of California, Berkeley;* LOUIS LEVINE, *San Francisco State College;* AND NORMAN SUNDBERG, *University of Oregon.*

Discussant: M. BREWSTER SMITH, *University of California, Berkeley.*

The Psychology of C. G. Jung: Implications for Theoretical Psychology

Participants: BRUNO KLOPFER, *Carmel, California;* AND JOSEPH R. ROYCE, *University of Redlands.*

LSD-25: A Facilitating Agent in Psychotherapy

ERNEST BELDEN, *Napa State Hospital,* Chairman

Participants: BETTY G. EISNER, *Los Angeles;* JOE K. ADAMS, *Mental Research Institute;* AND WILSON VAN DUSEN, *Mendocino State Hospital.*

Discussant: JACK BLUMENKRANTZ, *VA Hospital, Fort Miley.*

Postdoctoral Training in Clinical Psychology

KEITH SWARD, *Beverly Hills,* Chairman

Participants: HEDDA BOLGAR, *Mt. Sinai Hospital, Los Angeles;* IRVING E. ALEXANDER, *National Institute of Mental Health;* THOMAS C. GREENING, *Psychological Service Associates;* AND STEWART B. SHAPIRO, *Western Psychological Center.*

Objective Studies of Frequency and Duration Variables in Human Interaction

JOSEPH D. MATARAZZO, *University of Oregon Medical School,* Chairman

Participants: WILLIAM A. HARGREAVES, *University of California School of Medicine;* HARRIE F. HESS, *University of Oregon Medical School;* AND JOHN A. STARKWEATHER, *University of California School of Medicine.*

Dimensions of Professional Helpfulness

GEORGE R. BACH, *Claremont Associated Colleges,* Chairman

Participants: EVERETT L. SHOSTROM, *University of California, Los Angeles;* E. H. PORTER, JR., *System Development Corporation;* AND VERNE J. KALLEJIAN, *University of California, Los Angeles.*

Discussant: EVA SHIPPEE-BLUM, *Woodside, California.*

Research Projects and Problems in the California State Department of Mental Hygiene

ROBERT T. ROSS, *California State Department of Mental Hygiene,* Chairman

Participants: BERNARD MEER, *Stockton State Hospital;* SARAH COUNTS, *Napa State Hospital;* GEORGE STONE, *Langley-Porter Neuropsychiatric Institute;* AND ARTHUR SILVERSTEIN, *Pacific State Hospital.*

Discussants: PHILIP R. A. MAY, *Camarillo State Hospital;* AND ALEX ROSEN, *University of California Neuropsychiatric Institute.*

Information Storage and Retrieval

JACK E. NIDEVER, *International Business Machines, San Jose,* Chairman

Participants: C. D. GULL, *General Electric Company;* PHYLLIS B. BAXENDALE, *International Business Machines, San Jose;* AND HAROLD P. EDMUNDSON, *Planning Research Corporation.*

Discussants: FRANK N. MARZOCCO, *Thompson Ramo-Wooldridge Corporation;* AND M. J. SEVEN, *Hughes Aircraft Company Ground Systems.*

The Treatment of Delinquents in the Community: Variations in Treatment Approaches

JOAN HAVEL, *California Department of Corrections,* Chairman

Participants: PAUL MUELLER, *California Department of Mental Hygiene;* EDITH MILLER TUFTS, *University of Southern California;* ROSEMARY PETERS, *California Youth Authority;* JOAN HAVEL, *California Department of Corrections;* AND ARTHUR PEARL, *California Department of Corrections.*

Relations between Learning and Brain Chemistry in the Rat

DAVID KRECH, *University of California, Berkeley,* Chairman

Participants: MARK R. ROSENZWEIG, *University of California, Berkeley;* DAVID KRECH, *University of California, Berkeley;* EDWARD L. BENNETT, *University of California, Berkeley;* JAMES F. ZOLMAN, *University of California, Berkeley;* AND JAMES L. MCGAUGH, *San Jose State College.*

Relations between State and Regional Psychological Associations

PATRICK L. SULLIVAN, *Glaser, Snowden and Associates,* Chairman

Participants: JOHN G. DARLEY, *APA Central Office;* ERNEST R. HILGARD, *Stanford University;* F. THEODORE PERKINS, *Claremont College;* NEIL D. WARREN, *University of Southern California;* AND WILLIAM S. KOGAN, *VA Hospital, Seattle, Washington.*

Adaptation Level, Theory, and Application

ALLEN PARDUCCI, *University of California, Los Angeles,* Chairman

Participants: HARRY HELSON, *University of Texas;* DONALD A. RILEY, *University of California, Berke-*

ley; AND ALLEN PARDUCCI, *University of California, Los Angeles.*

The Neurologically Impaired Child in a Public School Setting

LOUIS LEVINE, *San Francisco State College,* Chairman

Participants: C. W. TELFORD, *San Jose State College;* BRUNO KLOPFER, *Carmel;* AND MARIANNE FROSTIG, *Marianne Frostig School.*

Psychology in Chronic Disease Hospitals

LEONARD V. WENDLAND, *Rancho Los Amigos Hospital,* Chairman

Participants: RUSSELL L. FORNEY, *Rancho Los Amigos Hospital;* GEORGE HOHMANN, *VA Hospital, Long Beach, California;* BARBARA M. STEWART, *VA Hospital, San Fernando, California;* AND ALBERT H. URMER, *Rancho Los Amigos Hospital.*

Discussant: HERMAN HARVEY, *University of Southern California.*

The Future Role of Computers in Diagnosis

ROBERT E. GRAETZ, *System Development Corporation,* Chairman

Participants: FREDERICK J. MOORE, *University of Southern California School of Medicine;* IVAN N. MENSH, *University of California School of Medicine;* PHILIP A. SMITH, *System Development Corporation;* AND HAROLD GIEDT, *VA Hospital, Sepulveda, California.*

Discussant: CHARLES J. ROACH, *System Development Corporation.*

Human Factors in Space Flight

GEORGE A. PETERS, *Douglas Aircraft Company,* Chairman

Participants: CHARLES O. HOPKINS, *Hughes Aircraft Company;* GEORGE MURPHY, *Douglas Aircraft Company;* WILLIAM B. EVANS, *Lockheed Aircraft Company;* HANS DENDL, *Douglas Aircraft Company;* HARVEY HANISH, *Litton Industries;* AND CHARLES W. SIMON, *Hughes Aircraft Company.*

Neurophysiological Approaches to the Study of Behavior

BERNICE M. WENZEL, *University of California Medical Center,* Chairman

Participants: W. ROSS ADEY, *University of California Medical Center;* WALTER J. FREEMAN, *University of California, Berkeley;* AND ROBERT D. TSCHIRGI, *University of California Medical Center.*

Discussant: IRVING MALTZMAN, *University of California, Los Angeles.*

INVITED PAPERS

WILLIAM KESSEN, *Yale University and Center for Advanced Study in the Behavioral Sciences;* AND GEORGE MANDLER, *Harvard University and Center for Advanced Study in the Behavioral Sciences.* Problems for a Theory of Anxiety. ERNEST R. HILGARD, *Stanford University,* Chairman.

HOWARD F. HUNT, *University of Chicago and Center for Advanced Study in the Behavioral Sciences.* Some Drug-Brain Lesion Interations and Their Effects on Behavior. HARRISON G. GOUGH, *University of California, Berkeley,* Chairman.

ADRIAAN D. DE GROOT, *University of Amsterdam and Center for Advanced Study in the Behavioral Sciences.* From Clinical to Statistical Prediction. HARRISON G. GOUGH, *University of California, Berkeley,* Chairman.

INVITED ADDRESS

EDWIN G. BORING, *Harvard University.* Psychology's Trends: Whence and Whither. DONALD B. LINDSLEY, *University of California, Los Angeles,* Chairman. Jointly sponsored by the WPA and the California State Psychological Association.

SPECIAL MEETINGS

Western Psychological Association Annual Business Meeting.

California State Psychological Association Annual Meeting.

PRESIDENTIAL ADDRESS

DONALD B. LINDSLEY, *University of California, Los Angeles.* Brain Mechanisms in Attention and Perception.

PROCEEDINGS OF THE THIRTY-SECOND ANNUAL MEETING OF THE MIDWESTERN PSYCHOLOGICAL ASSOCIATION

I. E. FARBER, Secretary-Treasurer

State University of Iowa

THE Midwestern Psychological Association held its thirty-second Annual Meeting at the Chase-Park Plaza Hotel, St. Louis, on April 28–30, 1960, with approximately 1,750 attending. The program consisted of 132 papers, 7 symposia, a workshop sponsored by the APA Board of Professional Affairs, and a Psi Chi meeting.

The Presidential Address, "Homeostasis, Need Reduction, and Motivation," was delivered by Ross Stagner, Wayne State University.

The Program Committee consisted of William E. Kappauf, Chairman, Willard A. Kerr, Frank Auld, Jr., and I. E. Farber. George S. Speer served as Convention Manager. The Local Arrangements Committee included Marion E. Bunch, Chairman, Winifred K. Magdsick, James M. Vanderplas, David McDonald, John A. Stern, Daniel S. Lordahl, E. P. Hollander, J. O. Sines, Ira J. Hirsch, and Francis L. Harmon. Janice P. Fish and Michael Amrine of the APA Central Office assisted with placement and public information, respectively.

Marion E. Bunch was elected President, and John W. Cotton was elected to the Council. Continuing members of the Council are Melvin H. Marx, Donald R. Meyer, and I. E. Farber.

The business meeting accepted 317 new and reinstated members, bringing the total membership to 2,455. According to the standing practice of MPA, any APA member may automatically become a member of MPA by payment of dues ($1.25 for one year, $3.00 for three years) to the Secretary-Treasurer. Those joining before the program deadline, February 15, 1961, may submit papers for the next meeting.

The 1961 meeting will be held May 4–6 in the Hotel Morrison, Chicago, Illinois.

The following were elected to life membership:

Harold H. Anderson
Alfred G. Dietze
Helen L. Koch
W. C. F. Krueger
H. Meltzer
C. Allen Merritt
John E. Rupp, Jr.
Howard Taylor

The following 215 APA members became MPA members during the year ending April 1:

Arnold Abrams
H. Robert Albrecht
Doris Twitchell Allen
Herbert Altschuler
Helen Ammons
Ted Andreychuk
Magda B. Arnold
Thomas S. Ball
A. Barclay
H. W. Barnes
Byron L. Barrington
Seymour M. Berger
Marvin H. Berkeley
Merrill C. Beyerl
Ray H. Bixler
Frank J. Blaisdell
Allen Bobroff
Lawrence J. Bookbinder
David W. Bortree
Scott T. Bowers
James V. Bradley
Lester G. Brailey
Jean Branson
Jean S. Braun
Claude F. Bridges
Hubert E. Brogden
Aaron J. Brownstein
Alvin G. Burstein
Frederick O. Carleton
Randolph Cautley
V. B. Cervin
Perry Choncholas
Dorothy Codkind
Kenneth Coffield
Donald L. Colburn
Robert C. Craig
Douglas Crowne
D. Gene Davenport
Catherine W. Davis
Lola A. Davis
Richard de Charms
Ruth Demarest
Gilbert W. De Rath
Marjorie N. Donald
Don F. Driggs
Edward E. Eddowes
William E. Edmonston, Jr.
Mary T. Edscorn
Danuta Ehrlich
Jan E. Eindhoven
Thomas Eliseo
Gerald D. Errion
Howard H. Fink
Joseph Fink
James J. Flynn
Warren Freiband
Gale L. Fuller
Paul A. Games
Richard Gardon
Willie Mae Gillis
Alyce M. Gligor
Clifton W. Gray
James G. Greeno
Richard J. Haberle
Donald F. Haggard
Edward S. Halas
Edwin R. Harris
Clarence H. Hartman
Harry L. Hawkins
Richard W. Highland
W. A. Hillix
Thomas L. Hilton
Arthur C. Hoffman
Thomas H. Hollen
David L. Horton
Ann Hozier
Edwin B. Hutchins
Bernard P. Indik
Robert C. Isaacson
James R. Ison
Augusta Jameson
Nelson Jones
Jacob J. Joseph
Henry F. Kaiser
Lawrence E. Kanous
Oliver J. B. Kerner
Ronnie Ketchel
W. W. Kimbrough, Jr.
Benjamin Kleinmuntz
LeRoy Kletti
Kathryn Koenig
Oliver P. Kolstoe
Samuel S. Komorita
Alfred J. Kraemer
Alan Krasnoff
Werner F. Kuhn
Luciano L'Abate
J. Clayton Lafferty
Rolfe LaForge
Richard A. Laliberte
Joe L. Lawson
Wan-Ho Chao Lee
Herbert B. Leedy
W. H. Leftwich

Barbara Leiner
Frank P. Lentz
J. Joseph Levin
Saul Levin
David Levine
Peter M. Lewinsohn
Yung-Huo Liu-Kao
Shephard Liverant
Ernest S. Long
Eleanore Braun Luckey
John F. McBrearty
Claudia McConnell
John W. McDavid
Jack McElroy
Richard K. McGee
William McGuire
Madrigale M. McKeever
J. H. McPherson
Robert M. Martin
Samuel T. Mayo
Georgia-Lee V. Melvin
Clifford Morgan
Kenneth F. Mosman
J. D. Murati
Daniel D. Murphy
Arnold D. Myhre
Douglass R. Nicklas
Robert L. Noland
Denis O'Donovan
Howard Olson
David Orzech
Albert F. Paolino
Cecil P. Peck
Melvin Perlman
Evelyn Perloff
Loraine Pilkey
Val Pishkin
Henry Pitts
Irwin Pollack
Juliet Popper
Robert L. Postel
Robert F. Powell
Anne Preston
Gerald G. Prideaux
Kenneth Purcell
Lawrence C. Repucci
Maynard C. Reynolds
Harold W. Richey
Eugene G. Roach
A. Dudley Roberts
Allyn F. Roberts
Robert R. Rodgers
C. Allen Roehl
Spaulding Rogers
Roland H. Roselius
Irwin M. Rosenstock
Ralph Rothskin
Robert E. Royal
Stanley I. Rubin
A. L. Ruess
Roger W. Russell
Edward Sait
Harry L. Saslow
Jack Sawyer
Robert A. Schaef
Lawrence Schlesinger
Frederick Schnadt
Donald A. Schmusky
Richard W. Schwab
Marvin Schwartz
John W. Senders
Donald T. Shannon
Richard E. Shannon
George Sidney
Ronald Sindberg
Howard Sloane, Jr.
Ellen Y. Smith
Jeanne B. Smith
Stanley W. Smith
Miriam R. Sperber
Irwin R. Sternlicht
Harold W. Stevenson
Paul Stoll
Wendell M. Swenson
Paul E. Thompson
Curtis Eugene Thomsen
Alan H. Townsend
E. Philip Trapp
H. C. Triandis
L. M. Triandis
James Jay Tschudy
V. M. Tye
Bonnie Tyler
T. R. Vallance
Charles Van Buskirk
Norris D. Vestre
Robert Vidulich
Herman Weil
Geraldine Westerberg
Lawrence Wheeler
Ella L. Wieg
Norman Willard
Ronald S. Wilson
Charles N. Winslow
Milton Wolpin
Jerome M. Yalowitz
Harold E. Younkman
Robert I. Yufit
Lucy Zaccaria
Misha S. Zaks
Martin Zlotowski

The following 82 nonAPA applicants were elected to membership:

Edward Abner
Frederick David Abraham
Sarah Alleman
Joyce E. Anderson
Keith Beery
John Beyerle
Jay Birnbrauer
Arthur Bodin
Norman Bowers
Alfred Bruner
William C. Byham
Paul V. Carlson
Fred B. Chaney
Keith N. Clayton
Richard Clingenpeel
Michael Cole
Malcolm N. Danoff
Robert F. Dennehy
Theodore Donaldson
Carl F. Eifler
Lloyd F. Elfner
Edward Ernhart
Allan H. Fisher, Jr.
Anne Stewart Fiske
Helen Foster
Wilbert Galitz
George Gordon
Lee Grota
Lola Hickman
James Horel
Kenneth Howard
Lyle E. Hufford
Frank G. Ireland
Herbert E. Kaiser
William D. Kalberer
Ned Kline
Frederick A. Knarr
S. F. Kreitzer
John M. Larsen, Jr.
Darrell Ellsworth Latham
Robert Lundy
Nan E. McGehee
Carol McGregor
Harrison McKay
Richard H. McKillip
Frank A. Malinowski
James Mitchell
Peter Edward Moon
Samuel A. Mudd
William Osborn
Ivan Pangrac
Frank N. Philpot
Gordon F. Pitz
Dean W. Plath
Kenneth Porter
Lee P. Pulos
Dan Ray
Jerome Relkin
Samuel H. Revusky
Joshua Rosenberg
Joseph Rosenstein
Betty Russell
Richard R. Schnell
Richard S. Seaman
Roger Severson
Donald Shearn
Jerome Siegel
Irwin Silverman
Larry S. Skurnik
Victor H. Small
Katherine Srednik
Richard Stephenson
David W. Stubbs
Joseph Thomas Tambe
Marjorie Van Arsdall
Alice K. Wagstaff
Donald Wass
Richard G. Weigel
Darlene Weisblatt
William Williams
Wliliam Yee
Marie Zimmerman

The following 20 members were reinstated:

Morris Aderman
Richard M. Beindorff
Robert Callahan
Robert S. Carter
Richard B. Cravens
Richard Delp
John R. Knott
Vita Krall
Robert B. Malmo
Priscilla R. Meyer
Paul F. Munger
John Arthur Myers
John E. Nygaard
David L. Russell
Daniel E. Safier
William F. Smith
Paul W. Sullivan
Howard Taylor
William H. Ward
Eugene Winograd

PROGRAM

PAPER SESSIONS

Abstracts of papers have been deposited with the ADI Auxiliary Publications Project, Photoduplication Service; Library of Congress; Washington 25, D. C., as Documents No. 6354–6376. When ordering, remit the indicated price, using check or money order payable

to: Chief, Photoduplication Service, Library of Congress. Advance payment is required.

TITLE	ADI NO.	MICRO-FILM	PHOTO-STAT
Human Conditioning	6357	$1.75	$2.50
Social Psychology	6356	1.75	2.50
Psychopharmacology	6355	1.75	2.50
Animal Behavior	6354	2.00	3.75
Subliminal Perception	6358	1.75	2.50
Brain Potentials	6359	1.75	2.50
Personality	6360	2.00	3.75
Measurement and Scaling	6361	1.75	2.50
Human Learning and Concept Formation	6362	1.75	2.50
Perception I	6363	1.75	2.50
Verbal Conditioning	6364	2.00	3.75
Abnormal Psychology	6365	2.00	3.75
Perception II	6366	1.75	2.50
Vocational and Industrial Psychology	6367	1.75	2.50
Engineering Psychology	6368	1.75	2.50
Reinforcement and Animal Learning	6369	2.25	5.00
Attitudes and Attitude Change	6370	2.00	3.75
Physiological Psychology	6371	1.75	2.50
Mathematical Behavior Theories	6372	2.00	3.75
Child Psychology	6373	1.75	2.50
Perceptual-Motor Learning	6374	1.75	2.50
Animal Motivation	6375	1.75	2.50
Psi Chi Paper Session	6376	1.75	2.50

Human Conditioning

G. ROBERT GRICE, *University of Illinois*, Chairman

Sensory preconditioning in discrimination learning. D. W. TYLER AND CLAUDE B. ELAM, *Louisiana State University and Texas Christian University.*

Role of UCS in classical and instrumental avoidance eyelid conditioning. JOHN W. MOORE AND ISIDORE GORMEZANO, *Indiana University.*

Effect of UCS presentations in eyelid conditioning. ARTHUR E. JONES AND ISIDORE GORMEZANO, *Indiana University.*

Conditioned stimulus flash rate and efficiency of conditioning. DELOS D. WICKENS AND SAMUEL W. COCHRAN, *Ohio State University and Edwards Air Force Base.*

Effects of instructions on the extinction of a conditioned finger withdrawal response. RICHARD H. LINDLEY AND K. E. MOYER, *Carnegie Institute of Technology.*

Social Psychology

LEONARD BERKOWITZ, *University of Wisconsin*, Chairman

Perceptual selectivity, memory, and anti-Semitism. LEE PULOS AND BERNARD SPILKA, *Larue Carter Memorial Hospital and University of Denver.*

The interaction of achievement motivation and teaching method in college learning. WILBERT J. MCKEACHIE, *University of Michigan.*

Postdecision affinity for incompatible information. SIDNEY ROSEN, *Marquette University.*

Similarity in friendships. BENJAMIN MEHLMAN, *Kent State University.*

The effects of initial orientation and amount of intertrial feedback on dyadic interaction. JOHN F. HALE AND RICHARD H. WILLIS, *Carnegie Institute of Technology.*

Quality and acceptance of problem solution by members of homogeneous and heterogeneous groups. L. RICHARD HOFFMAN AND NORMAN R. F. MAIER, *University of Michigan.*

Psychopharmacology

R. C. DAVIS, *Indiana University*, Chairman

Effects of dl-amphetamine sulphate on exploration and latent learning. GERALD A. DOYLE AND N. JAMES CARLSON, *Western Reserve University.*

The effects of threosulfate upon food and water consumption and water maze performance. KENNETH R. LAUGHERY AND PETER MOSHEIN, *Carnegie Institute of Technology.*

The effects of thiopropazate-dihydrochloride upon recovery from an approach-avoidance conflict. BRENDAN A. MAHER AND JANET A. TAYLOR, *Louisiana State University and Northwestern University.*

Effects on offspring of mothers administered antidepressant drugs during gestation. JACK WERBOFF, JACQUES S. GOTTLIEB, AND EUGENE L. DEMBICKI, *Lafayette Clinic and Wayne State University.*

Animal Behavior

CARL L. ROBERTS, *Colorado College*, Chairman

On the optimum CS-UCS interval. CALVIN K. ADAMS, DONALD L. HARDESTY, AND MERRILL NOBLE, *Kansas State University.*

Reversal learning by paradise fish (*Macropodus opercularis*). J. M. WARREN, *Yerkes Laboratories of Primate Biology.*

Primary stimulus generalization and secondary extinction as a function of strength of a conditioned avoid-

ance response. DONALD R. HOFFELD, *Rome Air Development Center.*

Changes in ad libitum eating associated with the availability of noningestive behaviors. SHELDON MANASTER AND DAVID PREMACK, *University of Missiouri.*

Behavioral correlates of genetically enhanced susceptibility to stomach lesion development. JACOB O. SINES, *Washington University School of Medicine.*

The relationship between illumination and bar pressing for water. RICHARD T. BEEN AND HARRY W. KARN, *Carnegie Institute of Technology.*

T-maze reversal following differential endbox training. JAMES R. ISON AND DAVID BIRCH, *University of Michigan.*

Sex as a factor in spatial delayed response performance by rhesus monkeys. ARNOLD A. MCDOWELL, W. LYNN BROWN, AND A. C. MCTEE, *University of Texas.*

Response location as a factor in primate pattern discrimination. JOHN R. SCHUCK, DAVID G. MCCONNELL, DONALD R. MEYER, AND VINCENT J. POLIDORA, *Ohio State University and University of Illinois Neuropsychiatric Institute.*

Subliminal Perception

ISRAEL GOLDIAMOND, *Southern Illinois University,* Chairman

Reaction time as a function of supraliminal, subliminal, and no ready signals. SHIRLEY C. BROWN AND ROSS STAGNER, *Wayne State University.*

Response-bias and perception. FREDERICK H. KANFER AND CHARLES D. SMOCK, *Purdue University.*

The unconscious perception of the meaning of verbal stimuli. MARCUS J. FUHRER AND CHARLES W. ERIKSEN, *University of Illinois.*

Preconscious perception: A re-examination of the Poetzl phenomenon. HAROLD J. JOHNSON AND CHARLES W. ERIKSEN, *University of Illinois.*

Brain Potentials

JACOB O. SINES, *Washington University Medical School,* Chairman

Influence of limbic system after-discharges on conditioned avoidance behavior. JAMES C. MITCHELL AND ORLANDO J. ANDY, *University of Mississippi.*

Personality factors and cortical activation. FRED L. DAMARIN, JR., *University of Illinois.*

Evoked cortical potentials from extracranial recordings in man. MARVIN SCHWARTZ AND CHARLES SHAGASS, *State University of Iowa.*

Occipital alpha rhythm and the Archimedes spiral afterimage. JEROME D. SCHEIN AND RONALD M. SINDBERG, *Florida State University and University of Wisconsin.*

Personality

ALFRED B. HEILBRUN, *State University of Iowa,* Chairman

A comparison of actual and paper-and-pencil versions of the water-jar test of rigidity. LAWRENCE S. WRIGHTSMAN, JR. AND ALFRED A. BAUMEISTER, *George Peabody College for Teachers.*

Item validity and response sets in sentence completion tests. MARK STEPHENS, *Purdue University.*

TAT performance as a function of anxiety and defense. E. JERRY PHARES, *Kansas State University.*

Judgments of adjustment as a function of experimentally altered TAT stories. BERNARD LUBIN, *Indiana University Medical Center.*

Opposite-sex scales as a measure of psychosexual deviancy. B. G. ROSENBERG AND B. SUTTON-SMITH, *Bowling Green State University.*

Basic personality factors during childhood and adolescence. K. WARNER SCHAIE, *University of Nebraska.*

The overachiever in a college of engineering. ROBERT E. KRUG, *Carnegie Institute of Technology.*

Construct validation of an ethical comprehension test. WILLIAM ITKIN, IRVING BRAUER, BERTHOLD DEMSCH, AND STANLEY CABANSKI, *Chicago Board of Education.*

A factor analysis of humor scales. JOHN C. LOEHLIN, *University of Nebraska.*

Measurement and Scaling

JANE LOEVINGER, *St. Louis Jewish Hospital,* Chairman

Influence of number of categories and sorting procedure on Thurstone's method of equal appearing intervals. ARTHUR C. MACKINNEY, LEROY WOLINS, AND ALLEN N. SMITH, *Iowa State University.*

How would Bayes rate the base rate? JOHN W. COTTON, *Northwestern University.*

Reliability as generalizability: Internal consistency formulas derived from a stratified sampling assumption. NAGESWARI RAJARATNAM, LEE CRONBACH, AND GOLDINE C. GLESER, *University of Illinois.*

Estimation of the specific reliability of a test or rater. LEE J. CRONBACH, *University of Illinois.*

The factor space D^2. JOHN E. OVERALL, *VA Central Neuropsychiatric Research Laboratory.*

Statistical tests of predictions generated from factor hypotheses. HAROLD P. BECHTOLDT, *State University of Iowa.*

Human Learning and Concept Formation

CARL P. DUNCAN, *Northwestern University,* Chairman

The effect of various asymptotic restrictions on human trial-and-error learning. RIDGELY W. CHAMBERS AND CLYDE E. NOBLE, *University of Illinois and Montana State University.*

Short-term retention and meaningfulness. LLOYD R. PETERSON AND MARGARET JEAN PETERSON, *Indiana University.*

Mediation in verbal paired-associate learning. NAN E. MCGEHEE AND RUDOLPH W. SCHULZ, *Northwestern University and Carnegie Institute of Technology.*

Transfer of concepts. JOHN T. GREENE, *Bowling Green State University.*

Concept identification as a function of intra- and interdimensional variability. WILLIAM F. BATTIG AND LYLE E. BOURNE, JR., *University of Virginia and University of Utah.*

"Neutralizing" and "deneutralizing" in the Wisconsin Card Sorting Test. RICHARD WIEHE, FRED ABRAHAM, AND ISIDORE GORMEZANO, *Indiana University.*

Perception I

WILLIAM H. LICHTE, *University of Missouri,* Chairman

Generalization gradients in a discrimination situation. DAVID LABERGE, *University of Minnesota.*

An application of stimulus sampling theory to summated generalization. TERESA S. CARTERETTE, *Air Force Cambridge Research Center.*

Age differences in auditory flutter fusion. JAMES D. PHILLIPS, JR., ROBERT K. BRANSON, AND THOMAS W. FRAZIER, *Louisiana State University and Florida State University.*

Relationship between verbal time-estimation and abstract ability. WAN-HO CHAO LEE, *Northwestern University.*

Verbal Conditioning

FREDERICK H. KANFER, *Purdue University,* Chairman

Changes in guessing habits following dice tossing experiences. ROBERT K. BRANSON, *Louisiana State University.*

The effects of instructional set on verbal conditioning. CHARLES D. SPIELBERGER AND MARY C. SHEPARD, *Duke University.*

On learning and generalization without verbal awareness. E. E. KRIECKHAUS AND CHARLES W. ERIKSEN, *University of Illinois.*

Conditioning and generalization of GSR as a function of awareness. BISHWA B. CHATTERJEE AND CHARLES W. ERIKSEN, *University of Illinois.*

The effects of awareness on verbal conditioning. SAUL M. LEVIN, *University of Minnesota Hospitals.*

An experimental alteration in the reinforcement value of a positive reinforcer. ALEXANDER M. BUCHWALD, *Indiana University.*

"Warmth" and verbal reinforcement. ROBERT N. WHITMAN AND MICHAEL M. REECE, *Wayne State University.*

Abnormal Psychology

JOHN A. STERN, *Washington University,* Chairman

Effects of social motivational variables on choice reaction time of schizophrenics. LEONARD D. GOODSTEIN, WILSON H. GUERTIN, AND HAROLD L. BLACKBURN, *State University of Iowa and VA Hospital, Knoxville, Iowa.*

Impairment of social understanding in schizophrenia. EIRA I. MATTSSON AND STEVEN G. VANDENBERG, *University of Michigan and Ypsilanti State Hospital.*

Two types of paranoid schizophrenia. BENJAMIN KLEINMUNTZ, *Carnegie Institute of Technology.*

Vocabulary deficit in brain operated schizophrenics. ROY M. HAMLIN AND ELAINE F. KINDER, *University of Pittsburgh and Rockland State Hospital.*

A comparison of the effects of warm-supportive vs. cold fact-finding interviews upon perceptual-motor functioning in brain damage. KENNETH D. STEWART AND OSCAR A. PARSONS, *University of Nebraska and University of Oklahoma Medical Center.*

The relationship of degree of electroencephalographic abnormality to distribution of Wechsler-Bellevue scores. HALLGRIM KLOVE, *Indiana University Medical Center.*

A comparison of brain injured and depressive subjects on the Trail Making Test. ROBERT R. ALVAREZ, *Western Reserve University.*

Perception II

RONALD H. FORGUS, *Lake Forest College,* Chairman

Size comparison judgments as affected by number and position of extraneous visual stimuli. ALVIN G. GOLDSTEIN, *University of Missouri.*

Quantitative measurements upon the estimation and reproduction of the length and tilt of single lines. DAVIS J. CHAMBLISS AND ALBERT J. WHITEHURST, *Tulane University and Air Force Cambridge Research Center.*

The influence of instructions on degree of shape constancy. WILLIAM H. LICHTE AND C. ROBERT BORRESEN, *University of Missouri.*

Binocular transfer of local adaptation to intermittent light. NORMAN M. GINSBURG, *Roosevelt University.*

Continuity effects with alternating tones. WILLARD R. THURLOW AND LLOYD F. ELFNER, *University of Wisconsin.*

Kinesthetic aftereffects as a function of number and distribution of satiation trials. RICHARD W. THOMPSON AND PAUL BAKAN, *Michigan State University.*

Vocational and Industrial Psychology

ORLO L. CRISSEY, *General Motors Institute*, Chairman

Mental hospital ward attendants' work attitudes and their work experience in "front" or "back" wards. HERBERT GERJUOY, JAMES G. BOND, ROBERT MCDEVITT, BENJAMIN ROSENBERG, AND JOSEPH K. BALOGH, *University of Toledo, Toledo State Hospital, Dayton Children's Psychiatric Hospital, and Bowling Green State University.*

A new test for placing inmates in institutional work assignments. DURAND F. JACOBS AND NORVILLE M. DOWNIE, *VA Hospital, Tomah, Wisconsin, and Purdue University.*

An analysis of attitudes toward work-related change. DON A. TRUMBO, *Kansas State University.*

Cross-validity of personality and personal history information in the selection of life insurance salesmen. PETER F. MERENDA AND WALTER V. CLARKE, *Walter V. Clarke Associates, Inc.*

An empirical investigation of the correlates of self-consistency of judgments among managerial personnel. DONALD C. KING, *Purdue University.*

The industrial psychologist: Education and employment. JACK SAWYER, *University of Chicago.*

Engineering Psychology

ERNEST J. MCCORMICK, *Purdue University*, Chairman

Judgment of distance changes between two cars. PAUL L. OLSON AND HERBERT J. BAUER, *General Motors.*

Driver opinions and reported performance under various interchange marking and nighttime visibility conditions. MARVIN D. DUNNETTE, *University of Minnesota.*

The role of time sharing in the design and use of cockpit procedures trainers. LYLE E. HUFFORD AND JACK A. ADAMS, *University of Illinois.*

Training effectiveness as a function of simulator complexity. JOHN M. NEWTON, *General Dynamics Corporation.*

Man-periscopic orbital reconnaissance: Some analytical design considerations from visual performance data. WILLIAM F. SHWARTZ, RICHARD W. OBERMAYER, AND FREDERICK A. MUCKLER, *Martin Company.*

Reinforcement and Animal Learning

JAMES A. DINSMOOR, *Indiana University*, Chairman

Concurrent respondent salivary and operant lever pressing conditioning with fixed interval reinforcement. MARTIN M. SHAPIRO, *Indiana University.*

Predicting instrumental performance from the independent rate of the contingent response. DAVID PREMACK, *University of Missouri.*

Regulation and reinforcement. GEORGE COLLIER AND FRANK WILLIS, JR., *University of Missouri.*

Taste and consummatory activity in amount of reinforcement effects. FRITZ A. KNARR AND GEORGE COLLIER, *University of Missouri.*

Runway performance as a function of amount and delay of reinforcement. EUGENE R. WIST AND GEORGE COLLIER, *University of Missouri.*

Secondary reinforcement strength as a function of schedule of primary reinforcement. HARVARD L. ARMUS, *Indiana University Medical Center.*

Extinction effects in T-maze choice behavior. JAMES G. GREENO, *University of Minnesota.*

The relative effects of magnitude of reward and partial reinforcement on the acquisition and extinction of a running response in the rat. ROGER W. MCINTIRE AND DONALD J. LEWIS, *Louisiana State University.*

An investigation of the reinforcing properties of visual stimulus constraint. V. JAMES POLIDORA, *University of Illinois.*

Attitudes and Attitude Change

RICHARD DE CHARMS, *Washington University*, Chairman

Factor analysis of social attitudes: A preliminary comparison of American and English results. JAMES H. DAVIS, CHARLES F. WRIGLEY, AND JANICE CASTELEIN, *Michigan State University.*

A checklist for identifying consumer attitudes. DONALD F. SHOWALTER, *Kansas State University.*

Advocates of innovation: The United States trained Filipino returns home. LAWRENCE SCHLESINGER, *Wayne State University.*

The relation of religious affiliation to parents' opinions concerning child rearing and children's problems, and parents' evaluations of their own personalities. PAUL H. WHITEMAN, *Hunter College.*

Individual-group attitude agreement and Weber fraction analogues in social perception. LEON H. LEVY, *Indiana University.*

The relative effectiveness of various types of prior belief defense in producing immunity against persuasion. WILLIAM J. MCGUIRE, *University of Illinois.*

The generality of the immunity to persuasion produced by pre-exposure to weakened counterarguments. DEMETRIUS PAPAGEORGIS AND WILLIAM J. MCGUIRE, *University of Illinois.*

A study of the modification of parental attitudes toward and understanding of mentally retarded children. DALE B. HARRIS AND AUDREY SHECHTMAN, *Pennsylvania State University and University of Minnesota Hospitals.*

Physiological Psychology

ARNOLD A. GERALL, *University of Kansas*, Chairman

Changes in cardiac response of the albino rat as a function of electroconvulsive shock. JOHN A. STERN AND THOMAS WORD, *Washington University.*

Changes in heartrate in male and female rats during coitus. THOMAS LAW AND PETER J. KARINEN, *University of Michigan.*

A technique for autonomic telemetering in the unrestrained rat. SAMUEL J. M. ENGLAND AND SEYMOUR LEVINE, *Columbus Psychiatric Institute and Hospital.*

Infantile handling and development in Siamese kittens. GILBERT W. MEIER, *Vanderbilt University.*

Changes in distribution of muscular tension for different ways of performing the same ergographic task. LEONARD E. JARRARD, *Washington and Lee University.*

Mathematical Behavior Theories

WARD EDWARDS, *University of Michigan*, Chairman

The effect of serial position upon two-choice probability discrimination. BRYAN D. DIXON AND DELOS D. WICKENS, *Ohio State University.*

The effects of nonreinforced trials in a two-choice verbal conditioning experiment with contingent reinforcement. RICHARD MILLWARD, *Indiana University.*

Probability learning in a psychophysical experiment. EMIR H. SHUFORD AND RAYMOND A. WIESEN, *University of North Carolina.*

Multiple-choice decision behavior with dummy choices. R. ALLEN GARDNER, *Quartermaster Research and Engineering Center, Natick, Massachusetts.*

Learning in two-person noncooperative games. ALFRED BRUNER, JANE BOND, MICHAEL COLE, AND SUCHOON MO, *Indiana University.*

Human decision making in a mathematical game situation. GIRARD W. LEVY AND MILTON A. GRODSKY, *Martin Company.*

The effect of number of solution alternatives on information gathering in diagnostic problem solving. EDITH D. NEIMARK, *New York University.*

Information processing behavior: The role of irrelevant stimulus information. ROBERT E. MORIN, BERT FORRIN, AND WAYNE ARCHER, *University of Texas.*

Child Psychology

BOYD R. MCCANDLESS, *State University of Iowa*, Chairman

Motivation for aggressive behavior in young children. CHARLES F. HANER AND ELIZABETH HALVORSEN, *Grinnell College.*

Children's repetition choices in an intellectual achievement situation following success and failure. VAUGHN J. CRANDALL AND ALICE RABSON, *Fels Research Institute.*

Patterns of response to stress. LEONARD M. LANSKY, *Fels Research Institute.*

A follow-up study of children with reading disability. ESTHER KASSOY AND HORACE B. ENGLISH, *Ohio State University.*

Visual word recognition by deaf and hearing children. DONALD G. DOEHRING AND JOSEPH ROSENSTEIN, *Indiana University Medical Center and Central Institute for the Deaf.*

Effects of three early experience parameters upon the intelligence of legally blind individuals. VICTOR H. DENENBERG, JOSEPH TIFFIN, ROBERT J. TEARE, AND JAMES C. NAYLOR, *Purdue University.*

Perceptual-Motor Learning

JACK A. ADAMS, *University of Illinois*, Chairman

A test for interaction of delay of knowledge of results and two types of interpolated activity. EDWARD A. BILODEAU AND FRANCIS J. RYAN, *Tulane University and State University of Iowa.*

The effect of level of augmented feedback on the acquisition of tracking skill. ROBERT G. KINKADE AND GEORGE E. BRIGGS, *Ohio State University.*

Postrest motor learning performance as a function of degree of learning. JOHN C. JAHNKE, *Miami University.*

A test for bilateral transfer of warm-up on the pursuit rotor task. ABRAM M. BARCH, *Michigan State University.*

Age, sex, and control-display relations in perceptual-motor performance. A. H. SHEPHARD, *University of Toronto.*

Animal Motivation

REED LAWSON, *Ohio State University*, Chairman

The development of affectional responses in infant dogs. GEORGE J. IGEL AND ALLEN D. CALVIN, *University of Virginia and Hollins College.*

Maze solving ability of rats reared in "free" and "restricted" environments: The effect of a drive conflicting with exploration. PAUL J. WOODS, ANNE STEWART FISKE, SUSAN I. RUCKELSHAUS, AND SALLIE JENNINGS, *Hollis College.*

The effect of drive level on the learning of a successive discrimination. JAMES ERICKSON AND DAVID LABERGE, *University of Minnesota.*

Effects of classically and instrumentally conditioned emotional responses on the subsequent learning of a shuttle-box avoidance response. BURTON SLOTNICK AND GARTH J. THOMAS, *University of Illinois.*

SYMPOSIA

The Lesser-Utilized Psychotherapeutic Approaches and Their Interrelations

MELVIN MANIS, *VA Hospital, Ann Arbor, Michigan,* Chairman

Participants:

BILL J. BARKLEY, *Cleveland, Ohio.* The gestalt approach.

CAROLYN PRATT, *Merrill-Palmer School.* The Jungian approach.

RAYMOND J. CORSINI, *Daniel D. Howard Associates.* The Adlerian approach.

LAWRENCE J. BOOKBINDER, *VA Hospital, Ann Arbor, Michigan.* Interrelating the three approaches.

Discussant: DONALD D. GLAD, *Greater Kansas City Mental Health Foundation.*

The Psychological Significance of Somatic Responses

ABRAM M. BARCH, *Michigan State University,* Chairman

Participants:

LEE W. GREGG, *Carnegie Institute of Technology.* Identification of central processes by means of somatic responses.

R. C. DAVIS, *Indiana University.* What is interesting about muscle action potentials?

ROBERT B. MALMO, *McGill University.* Muscle tension as an indicant of activation.

Discussant: DONALD R. MEYER, *Ohio State University.*

The Systems Approach in Human Factors Research

ROBERT PERLOFF, *Purdue University,* Chairman

Participants:

FREDERICK A. MUCKLER, *Glenn Martin Company;* GUSTAVE J. RATH, *Admiral Corporation;* ROBERT M. PETERSON, *System Development Corporation;* AND ALAN J. HOISMAN, *Purdue University.* Examples of systems problems and their solution by psychological research.

ARTHUR W. MELTON, *University of Michigan.* Graduate training for systems research.

Government Programs in Support of Psychological Research

WARREN F. SEIBERT, *United States Office of Education,* Chairman

Participants: PHILIP H. MITCHELL, *United States Department of Defense;* LOUIS A. WIENCKOWSKI, *National Institute of Mental Health;* ROBERT BEESER, *United States Office of Education;* AND HENRY S. ODBERT, *National Science Foundation.*

Need Strength, Subjective Probability of Goal Attainment, and Personality Assessment

BONNIE B. TYLER, *Southern Illinois University,* Chairman

Participants:

FRANK AULD, JR., *Wayne State University.* Response occurrence as a function of drive strength, response probability, and opposing drive strengths.

NORMAN T. FEATHER, *University of Michigan.* The influence on persistence of motivation to achieve success, anxiety about failure, and apparent difficulty of a task.

FORREST B. TYLER, *Southern Illinois University.* Parallel assessment of expectancies and need values from parental interviews and child observations.

Discussants: VAUGHAN J. CRANDALL, *Fels Research Institute;* AND LEE SECHREST, *Northwestern University.*

Chemical Models for Correlates of Behavior

ROGER W. RUSSELL, *Indiana University,* Chairman

Participants:

JAMES OLDS, *University of Michigan.* Stimulation of the hypothalamus with phosphate compound.

BEATRICE GELBER, *University of Chicago.* Molecules, cells, and behavior.

JAMES V. MCCONNELL, *University of Michigan.* Darwin revisited: Up and down the scale with rod and gene.

Discussants: AMADEO MARAZZI, *VA Neuropsychiatric Institute, Pittsburgh, Pennsylvania;* AND ELI ROBINS, *Washington University Medical School.*

Research by Psychologists in Medical Settings

ROBERT L. MCFARLAND, *VA Research Hospital, Chicago, Illinois,* Chairman

Participants: MILTON J. HOROWITZ, *Western Reserve University School of Medicine;* JOHN A. STERN, *Washington University School of Medicine;* MORTON

LEVITT, *Wayne State University College of Medicine;* AND JEROME COHEN, *Northwestern University Medical School.*

Discussant: ROBERT L. MCFARLAND, *VA Research Hospital, Chicago, Illinois.*

SPECIAL MEETING

Workshop for Officers or Representatives of State Associations. Sponsored by the APA Board of Professional Affairs. M. C. LANGHORNE, Chairman.

PSI CHI

Paper Session

RICHARD A. KAMMAN, *University of Cincinnati,* Chairman

The writing process. BARBARA A. FIECHTER, *Indiana University.*

The persistence of trial one effects on spontaneous alternation in rats. JANICE R. WOODRUFF AND ROBERT FOX, *University of Cincinnati.*

Techniques for communicating with the blind student in psychology. JANE M. DOTSON, *University of Cincinnati.*

Learning in a three-choice situation. JUDITH CROOKS, *Indiana University.*

Invited Address

ROGER W. RUSSELL, *Indiana University.* Psychology Abroad.

PRESIDENTIAL ADDRESS

ROSS STAGNER, *Wayne State University.* Homeostasis, Need Reduction, and Motivation. ARTHUR W. MELTON, Chairman.

PROOCEEDINGS OF THE THIRTY-FIRST ANNUAL MEETING OF THE EASTERN PSYCHOLOGICAL ASSOCIATION

CARL H. RUSH, *Secretary*

Ted Bates and Company, Inc.

THE thirty-first Annual Meeting of the Eastern Psychological Association was held on April 15–16, 1960 at the Statler Hilton Hotel in New York. 2,311 persons registered at the meeting of whom 1,260 were members of the association, 318 were new members who joined the association at the meeting, and 733 were guests. The present membership of EPA totals 3,315.

Sheldon Zalkind was in charge of local arrangements, assisted by William Walker, Richard Barrett, Marvin Iverson, Ronald Schwartz, E. J. Shoben, Jr., S. Wescott Shaw, and Norman Gekoski. The Program Committee, consisting of David Ehrenfreund, Chairman, John Lanzetta, and Raymond Katzell, scheduled 294 papers (presented in 35 sessions), 8 symposia, 7 special meetings, 2 invited addresses, and 3 films. James J. Gibson presented the annual Presidential Address entitled "The Concept of the Stimulus in Psychology."

Among the significant items transacted at the Annual Business Meeting and at the Board of Directors Meeting were the following:

1. S. S. Stevens was elected President (1960–61); George A. Miller and William N. Schoenfeld were elected to the Board of Directors (1960–63).

2. The following appointments were made: Committee on Local Arrangements, Norman Gekoski, Chairman; Program Committee, Henry David to serve with Raymond Katzell, Chairman, and David Ehrenfreund; Elections Committee, T. A. Ryan to serve with James J. Gibson; Membership Committee, Joseph Bobbitt to serve with Mortimer Applezweig; Auditing Committee, Paul F. Ross and Donald Grant.

3. Twelve non-APA members were approved for membership, and one was rejected.

4. It was announced that the 1961 meeting would be held at the Bellevue-Stratford Hotel in Philadelphia on April 7–8.

5. The following actions of the Board of Directors were announced:

a. The Board voted to limit participation in the EPA program. No person may read or co-author more than one paper, including symposia and invited addresses.

b. The Board instructed the Secretary to define in the "Call For Papers" the responsibility of an EPA member in sponsoring a nonmember paper. In the future sponsors will be listed in the program as such.

c. The Board voted to change the specifications for abstracts submitted for possible inclusion in the program. In the future abstracts may be up to 1,000 words in length but must include full description of method, analysis procedures, and basic data tables. This action was taken in an effort to provide the Program Committee with more adequate information on which to base the evaluation of a proposed paper.

d. The Board authorized the Program Committee to continue the practice of a two-day meeting. It also authorized the committee to secure the assistance of as many additional members as is necessary to perform its functions.

e. The Board voted thanks to Harry Kalish, Walter Gulick, and Lawrence Karlin for their valuable assistance as consultants to the Program Committee this year.

f. The Board discussed the problem of this year's conflict with Good Friday. It concluded that every effort should be made to eliminate such conflict in the future but that in certain years it will be necessary to meet on Good Friday. The Board wished to assure the membership that the Secretary, acting in behalf of the association, is doing everything possible to schedule meetings at times and places which are convenient for the greatest number of members.

g. The Board appointed a new committee to study the structure and function of EPA. This committee will consist of Carl Pfaffman, James Gibson, Fred Keller, Richard Solomon, Gorham Lane, and Carl Rush. It will meet several times during the coming year to prepare recommendations for reorganization of EPA and report to the Board at its next meeting. One part of this committee's responsibility will be to draft a revision of the Bylaws to combine the offices of Secretary and Treasurer and to create the position of Executive Secretary. Because the present Secretary is retiring at the end of the next fiscal year, the Board instructed him to begin now to seek candidates for the position of Executive Secretary, with a salary of $2,000.00 per year and a budget of $2,000.00 for clerical and stenographic assistance.

h. The Board voted to change the time of its Annual Meeting to accommodate the increase in its

agenda. In the future the Board will meet in the afternoon and evening of the day preceding the convention. Additional meetings of the Board were authorized if and when necessary.

i. The Board authorized the Secretary to pay the expenses of invited speakers and chairmen of local arrangement committees.

6. The Secretary read a statement prepared by a subcommittee of the Board, as follows:

For several years the EPA Board has been concerned about the growing size of the program and the membership of the association. It has considered various ways in which some of these problems could be solved. To date no reasonable solution has been found which would overcome the problems and yet retain the desirable features of the present organization. There is at present a movement to organize a New England Psychological Association (NEPA) in six of the states in which EPA has members. The Board discussed the implications of the formation of this society and decided to follow it closely in order to determine the extent to which it meets the needs of psychologists in these states and is likely to facilitate the objectives of EPA.

7. Under new business, the issue of the proposed New England Psychological Association was raised and discussed at length. A motion was made that EPA's administrative officers prepare a report to the membership summarizing the many problems confronting EPA including the possible formation of NEPA, this document to be mailed to the membership at the earliest possible time. After discussion, the motion was put to a vote and passed.

8. The interim report and proposed budget for 1960–61 were presented by the Treasurer, Martin M. Bruce. The Treasurer's audited financial statement for the fiscal year 1959–60 follows:

FINANCIAL STATEMENT AS OF MAY 1, 1960
FOR THE FISCAL YEAR 1959–60

INCOME:		
Member Dues		$ 5,959.03
Guest Fees		1,466.00
Exhibitors' Fees		3,055.00
Sale of Programs		87.50
Interest on Savings Account		12.33
Total Income		$10,579.86
EXPENDITURES:		
Publication of Proceedings		$ 329.00
Secretary's Honorarium		700.00
Office of Secretary—Labor		1,226.00
Office of Secretary—Supplies and Equipment		232.33
Bonding of Secretary		12.50
Postage		244.00
Printing and Maintenance of Member Addressograph File		2,081.65
Annual Meeting Expenses:		2,644.56
Exhibits	$1,112.96	
Placement Service	118.68	
Registration	694.95	
Press	28.38	
Audio-Visual Aids	367.58	
General Expenses	322.01	
Program Committee		99.49
EPA Structure and Function Committee		63.63
EPA History Project		30.00
Total Expenditures		$ 7,663.16
Surplus for 1959–60		$ 2,916.70
Cash Balance as of May 1, 1959		2,468.01
Adjustment on 1959 Cash Balance		348.71
CASH BALANCE as of May 1, 1960		$ 5,733.42

We, the Auditing Committee for the year 1959–60, have examined the records in connection with this statement and find it to be a true and correct account.

Signed:
PAUL F. ROSS
DONALD GRANT

PROGRAM

PAPER SESSIONS

Visual Perception I

LEO HURVICH, *New York University*, Chairman

The theoretical and experimental isolation of the stimulus variable for the perception of slant depth. HOWARD R. FLOCK, *Cornell University.*

Stroboscopic movement as a function of change in phenomenal location. SHELDON EBENHOLTZ AND IRVIN ROCK, *New School for Social Research and Yeshiva University.*

Transfer between visual-motor systems of adaptation to prismatic displacement of vision. ALAN V. HEIN AND RICHARD M. HELD, *Brandeis University.*

Variability of training in the discrimination of distorted visual forms. ROBERT L. RHYNE AND RICHARD H. HENNEMAN, *University of Virginia.*

Monocular contour perception under the influence of prior stimulation of the contralateral eye. W. L. GULICK, *University of Delaware.*

Psychophysical methods and the brightness scaling of brief foveal stimuli. JUDITH WHEELER ONLEY, *University of Rochester.*

Form overlap as a predictor of form discriminability. CHARLES L. ELWORTH AND ROBERT M. BOYNTON, *University of Rochester.*

The influence of orientation of geometric forms on recognition in children. LILA GHENT AND LILLY BERNSTEIN, *New York State Medical School.*

The effects of instructions and oculomotor adjustments on apparent size. WILLIAM R. BIERSDORF AND SONOKO OHWAKI, *Walter Reed Army Institute of Research.*

Reinforcement

JOSEPH M. NOTTERMAN, *Princeton University*, Chairman

The generalization of secondary reinforcement across drives. LYNE STARLING REID AND JAMES F. CAMPBELL, *University of Virginia.*

Secondary reinforcement in a discrimination problem. JANE G. FORT AND JEROME L. MYERS, *University of Massachusetts.*

Consummatory and running behavior as a function of volume of reinforcement and number of consummatory responses. HARRY L. SNYDER AND STEWART H. HULSE, *Johns Hopkins University.*

Instrumental licking behavior as a function of schedule, volume, and concentration of a saccharine reinforcer. STEWART H. HULSE, HARRY L. SNYDER, AND W. EDWARD BACON, *Johns Hopkins University.*

The lever-pressing performance on various reinforcement schedules of rhesus monkeys motivated by a visual exploration drive. LOUIS E. MOON, *Sterling-Winthrop Research Institute.*

Social interaction under fixed interval schedules of reinforcement. SHERRY B. AUTOR, *Harvard University.*

Resistance to extinction in the fish as a function of consistency of reinforcement and drive level. NICHOLAS LONGO AND M. E. BITTERMAN, *Bryn Mawr College.*

Stimulus control of an intermittently reinforced response. LEWIS R. GOLLUB, *Harvard University.*

An optional two-member behavioral chain. EVALYN F. SEGAL, *Walter Reed Army Institute of Research.*

Psychopharmacology I

GEORGE A. HEISE, *Hoffmann-La Roche, Inc.*, Chairman

A seven-component multiple schedule for use in human psychopharmacology. ARTHUR G. SNAPPER, FRANCIS MECHNER, AND RONALD RAY, *Schering Corporation.*

Effects of drugs on bar pressing for food during gradations in fear. HERBERT BARRY III AND SYLVIA A. WAGNER, *Yale University.*

Comparison of mescaline- and chlorpromazine-induced impairment of conditional avoidance response (CAR) in the rat. STEPHAN L. CHOROVER, *New York University–Bellevue Medical Center.*

Drug-induced catalepsy and loss of avoidance behavior in rats. R. E. EDWARDS, A. H. HARRIS, AND R. L. MARLIN, *Sterling-Winthrop Research Institute.*

The effect of phenelzine on conflict-induced behavior fixations. ROBERT S. FELDMAN AND FREDERICK J. BREMNER, *University of Massachusetts.*

A new conflict procedure for the evaluation of drugs. IRVING GELLER AND JOSEPH SEIFTER, *Wyeth Institute for Medical Research.*

Further studies of isolation stress in mice and rats. T. C. BARNES, *Parmae Laboratories.*

The effects of chlorpromazine on performance in a multiple schedule in dogs. ARNOLD DAVIDSON, LEONARD COOK, AND ROGER T. KELLEHER, *Smith Kline and French Laboratories.*

The effects of chlorpromazine upon maladaptive behavior in deermice. PATRICIA F. WALLER AND MARCUS B. WALLER, *Roscoe B. Jackson Memorial Laboratory.*

Social Behavior

HAROLD B. GERARD, *Bell Telephone Laboratories*, Chairman

Behavioral change during college. RALPH M. RUST AND JAMES S. DAVIE, *Yale University.*

The influence of dependency-anxiety on the effectiveness of social reinforcers. ROBERT B. CAIRNS, *University of Pennsylvania.*

Externalization in perceptual defense. DAVID W. LEWIT, RICHARD BRAYER, AND ALAN LEIMAN, *University of Massachusetts.*

The conditioning of hostile responses to photographs of peers: Three measures of generalization. PAUL EKMAN AND WALLACE V. FRIESEN, *United States Army Hospital, Fort Dix, New Jersey.*

The effect of differential evaluation on group level of aspiration, decision time, and productivity. FLORENCE DENMARK, DOROTHY MURGATROYD, AND ALBERT PEPITONE, *Queens College, Wagner College, and University of Pennsylvania.*

An experimental test of the effects of fear and anxiety upon social affiliation. PHILIP G. ZIMBARDO AND IRVING SARNOFF, *Yale University.*

Effects of role-orientation and value-orientation on the nature of attitude change. HERBERT C. KELMAN, *Harvard University.*

Hospital staff-patient attitudinal interaction as a function of certain patient characteristics. ALEXANDER ASTIN, *VA Hospital, Baltimore, Maryland.*

Creativity and social class. STANLEY COOPERSMITH, CHARLES CHURCH, AND JOSEPH MARKOWITZ, *Wesleyan University.*

Comparative

NORMAN L. MUNN, *Bowdoin College,* Chairman

Two examples of "selective attention" in the pigeon. GEORGE S. REYNOLDS, *Harvard University.*

Habit reversal in the crab. LOIS-ELLIN DATTA, SANDRA MILSTEIN, AND M. E. BITTERMAN, *Bryn Mawr College.*

Electrical responses of the light- and dark-adapted turtle eye. ALLEN MANUEL GRANDA, *Walter Reed Army Institute of Research.*

A comparison of depth discrimination in light- and dark-reared kittens. ELEANOR J. GIBSON AND RICHARD D. WALK, *Cornell University and George Washington University.*

Comparison of the reinforcing value of two dog-handler interactions in the beagle-terrier hybrid. WALTER C. STANLEY, *Roscoe B. Jackson Memorial Laboratory.*

Early social contact as a determinant of aggregative behavior in the domestic chicken. ALAN BARON AND GEORGE B. KISH, *University of Maine.*

The effect of early social isolation upon the sexual and motor activity of male guinea pigs. HELENE D. GERALL, *University of Kansas.*

Stimulus determinants of aggregative behavior in the domestic chicken. GEORGE B. KISH, ALAN BARON, AND JOSEPH J. ANTONITIS, *University of Maine.*

Measurement of olfactory sensitivity in the rat. WILLIAM R. GOFF, *Yale University.*

Brain Stimulation

ROBERT S. FELDMAN, *University of Massachusetts,* Chairman

The relation of septal self-stimulation to water intake. JOHN L. FALK, *Harvard University.*

Brain-stimulation reward thresholds modified by drugs. LARRY STEIN, *Wyeth Institute for Medical Research.*

The effect of stimulation of the nonspecific thalamic nuclei on a visual discrimination in the rat. INA SAMUELS, *University of Michigan.*

The effect of subcortical stimulation on retention in the rat. AUSMA RABE, *University of Michigan.*

Sensory deprivation and maintained sensory input in monkeys: Behavioral and neuropharmacological studies. S. S. FOX, *University of Michigan.*

Ability of rats to discriminate tones presented concurrently with reinforcing brain stimulation. BERNARD BEER AND ELLIOT S. VALENSTEIN, *Walter Reed Army Institute of Research.*

Motivational variables affecting behavior maintained by intracranial stimulation. WILLIAM HODOS AND ELLIOT S. VALENSTEIN, *Walter Reed Army Institute of Research.*

Comparison of the effectiveness of bipolar and unipolar electrode techniques with self-stimulating rats. ELLIOT S. VALENSTEIN, *Walter Reed Army Institute of Research.*

Projective Techniques

ZYGMUNT A. PIOTROWSKI, *Jefferson Medical College,* Chairman

The difficulty values of TAT cards. RICHARD BRAYER, GRACE CRAIG, AND WARREN H. TEICHNER, *University of Massachusetts.*

The influence of sexual drive, sexual guilt, and sex-relevance of the stimulus on thematic apperception responses. ALAN LEIMAN AND SEYMOUR EPSTEIN, *University of Massachusetts.*

A projective test of aggression. JOHN J. LA GAIPA, *United States Naval Personnel Research Field Activity.*

Foresight and hindsight in the TAT. DAVID F. RICKS AND DAVID EPLEY, *Harvard University.*

Stability of the Rorschach index of repression. MURRAY LEVINE AND GEORGE SPIVACK, *Devereux Foundation.*

The effect of a structured inquiry on Rorschach scores. GEORGE STRICKER AND MELVIN ZOX, *University of Rochester.*

Food-related responses on the Rorschach as a function of time without food. SEYMOUR EPSTEIN, *University of Massachusetts.*

Nonspecific verbal reinforcement of Rorschach responses in a group of schizophrenics. SOL HECKELMAN, MAURICE PORTNOY, AND MARTIN ROTHMAN, *Brooklyn State Hospital, New York.*

Homosexuality signs in projective techniques in Puerto Rican female convicts. FRANCO FERRACUTI AND GIOVANNI B. RIZZO, *University of Puerto Rico and University of Rome.*

Verbal Behavior

IRVING LORGE, *Teachers College, Columbia University,* Chairman

The effect of length of list and presentation rate on the immediate retention of unrelated words. BENNET B. MURDOCK, *University of Vermont.*

Predicting importation in the recall of connected verbal material. I. H. PAUL AND LESTER T. ALSTON, *New York University.*

Task difficulty and anxiety level as factors affecting performance in a verbal learning situation. BERNARD W. HARLESTON AND SCOTT M. CUNNINGHAM, *Tufts University.*

On the size of a dictionary. E. B. NEWMAN AND NANCY C. WAUGH, *Harvard University and Massachusetts Institute of Technology.*

Verbal instructions in intentional and incidental learning. SHELDON ROSENBERG, *Training School at Vineland, New Jersey.*

The effect of three intensities of ego and task orientation on learning and retention of a unique perceptual-verbal learning task. ROBERT STERN, *Tufts University.*

The prediction of free recall from word association measures. ERNST ROTHKOPF AND ESTHER U. COKE, *Bell Telephone Laboratories.*

"Cloze score" as a function of attitude. MELVIN MANIS AND ROBYN M. DAWES, *VA Hospital, Ann Arbor, Michigan, and University of Michigan.*

Response vs. discriminal uncertainty. RAYMOND REILLY, WARREN H. TEICHNER, AND ERNEST SADLER, *University of Massachusetts.*

Evaluation and Measurement

BERT GREEN, *Massachusetts Institute of Technology,* Chairman

A comparison of two methods of scaling nonsense syllable pairs for ease of learning. WILLIAM F. BATTIG, *University of Virginia.*

The effect of nonnormally distributed criterion scores on item analysis techniques. JAMES F. ADAMS, *Temple University.*

Comparing two methods of weighting a set of scores. CHARLES E. HALL, *Walter V. Clarke Associates.*

Cluster centroid analytic rotation. JAMES M. SAKODA, *University of Connecticut.*

A film test of clinical skills in medical students. MARVIN G. CLINE, *University of Pittsburgh.*

The factorial structure of the scales of the Primary Mental Abilities, Guilford-Zimmerman Temperament Survey, and the Kuder Preference Record. WILLIAM J. MEYER AND A. W. BENDIG, *University of Pittsburgh.*

Faking on the Kuder Preference Record. EDWIN D. LAWSON, *State University of New York.*

An empirical comparison of four item selection methods. DOUGLAS G. SCHULTZ, *Applied Psychological Services.*

The feasibility of Guttman- and Thurstone-type scaling for skills. ARTHUR I. SIEGEL, *Applied Psychological Services.*

Psychopharmacology II

DONALD H. BULLOCK, *Institute of the Pennsylvania Hospital,* Chairman

The effects of chlorpromazine, meprobamate, or phenobarbital on performance on a complex multiple schedule. ROGER T. KELLEHER, WILLIAM FRY, AND LEONARD COOK, *Smith Kline and French Laboratories.*

The effects of drugs on locomotor behavior. SAMUEL B. SCHNITZER AND SHERMAN ROSS, *University of Maryland.*

An automation of the potentiated startle technique and its application to psychopharmacology. DAVID R. WILLIAMS AND NEAL E. MILLER, *Yale University.*

The effect of chronic administration of dl-amphetamine on timing behavior. C. R. SCHUSTER AND J. ZIMMERMAN, *University of Maryland.*

Some central effects of atropine. P. L. CARLTON, *Squibb Institute for Medical Research.*

Effects of pentobarbital on discrimination and generalization. DONALD S. BLOUGH, *Brown University.*

Concurrent measurements of food-rewarded behavior and stimulation or depressant action of d-amphetamine and other drugs. GEORGE A. HEISE, ELIZABETH WALKER, AND CARL SCHECKEL, *Hoffmann-La Roche, Inc.*

Effects of a CNS muscle relaxant on performance of finger dexterity tasks of varying difficulty. RANDALL M. CHAMBERS AND MORGAN UPTON, *Rutgers University.*

A study of the retroactive effects of strychnine sulphate on maze learning. RICHARD B. ROSS AND JAMES L.

McGAUGH, *Carnegie Institute of Technology and San Jose State College.*

Interpersonal and Self-Description

RALPH V. EXLINE, *University of Delaware,* Chairman

Self-ideal discrepancies, level of ideal ratings, and defensiveness. RUTH C. WYLIE, *Sarah Lawrence College.*

Effects of changing verbal contexts upon connotations of interpersonal traits. WALTER H. CROCKETT AND LOUIS J. NIDORF, *Clark University.*

Social desirability in the ratings of involved and neutral judges. GEORGE LEVINGER, *Bryn Mawr College.*

A comparison of ratings of personal reaction to being described by trait-descriptive adjectives, and social desirability ratings of the same adjectives. ALLAN COOPER AND EMORY L. COWEN, *University of Rochester.*

The social desirability of trait-descriptive terms: Forced-choice self-endorsements as a personality assessment procedure. WILLIAM BUDIN, FLORENCE A. BUDIN, AND EMORY L. COWEN, *University of Rochester.*

The social desirability of trait-descriptive terms: Applications to an alcoholic sample. MELVIN ZAX, WILLIAM BUDIN, CHARLES F. BIGGS, AND EMORY L. COWEN, *University of Rochester.*

The social desirability of trait-descriptive terms: A factor in the prediction of *Q* sort. ALFRED STILLER, WILLIAM BUDIN, DAVID WOLITZKY, AND EMORY L. COWEN, *University of Buffalo and University of Rochester.*

The social desirability of trait-descriptive terms: Two geriatric samples. GUNARS REIMANIS, ALFRED STILLER, STEPHEN H. DAVOL, AND EMORY L. COWEN, *University of Rochester, University of Buffalo, and VA Center, Bath, New York.*

The interrelationship of situational and personal factors affecting social interaction. BERNARD MAUSNER AND ELAINE SLOAN, *University of Pittsburgh.*

Animal Behavior

DANIEL S. LEHRMAN, *Rutgers University,* Chairman

Cooperation, competition, and dependency as a function of food deprivation. DONALD C. BUTLER, *Dartmouth College.*

Interaction among components of a multiple DRL schedule. J. ZIMMERMAN AND C. R. SCHUSTER, *University of Maryland.*

Problem solving by mature rats as influenced by the developmental period of exposure to "free" environmental experience. THOMAS D. SPENCER AND PAUL J. WOODS, *Iowa Child Welfare Research Station and Hollins College.*

Percentage weight loss as a measure of "hunger" in infant and adult rats. BYRON A. CAMPBELL AND RUTH A. WILLIAMS, *Princeton University and Brown University.*

Effects of home-cage and training-cage shock on "emotionality" of the rat in the open-field. DOUGLAS K. CANDLAND AND BYRON A. CAMPBELL, *University of Virginia and Princeton University.*

A technique for studying habit interference in the pigeon. JACSUE KEHOE AND J. W. KLING, *Brown University.*

Sensory preconditioning and the drive-reduction hypothesis. D. G. MOOK AND F. ROBERT BRUSH, *University of Pennsylvania.*

Some parameters of imprinting effectiveness. HOWARD MOLTZ AND L. J. STETTNER, *Brooklyn College.*

Development and inheritance of a simple behavior pattern in dogs: Barking vs. barklessness. J. P. SCOTT, *Roscoe B. Jackson Memorial Laboratory.*

Physiological

ELIOT STELLAR, *University of Pennsylvania Medical School,* Chairman

Differential effects of psychoactive drugs on components of the water ingestion response in the rat. LEON S. OTIS AND MARK A. BERKLEY, *Johns Hopkins University.*

The effects of varying alcohol doses on differential lever pressing in the rat. ROBERT D. MYERS, *Colgate University.*

Changes in female sexual functioning following the extirpation of the pituitary gland. MARTHA SCHON AND ARTHUR M. SUTHERLAND, *Memorial Center, New York.*

The effect of acute sleep loss on a short addition test. ARDIE LUBIN, *Walter Reed Army Institute of Research.*

Subcortical EEG amplitude gradients and heart rate changes during bar pressing in the rat. DAN EHRLICH, *McGill University.*

Eosinopenia and limbic lesions. MORTON GOLLENDER AND THOMAS LAW, *University of Michigan.*

Effects of an experimentally induced acute renal failure on a learned maze response in rats. WALTER B. ESSMAN, *Albert Einstein College of Medicine.*

Psychopathology

BERNARD LOCKE, *VA Hospital, New York,* Chairman

Individual differences in the perception of the upright in hospitalized psychiatric patients. M. POLLACK,

R. L. KAHN, E. KARP, AND M. FINK, *Hillside Hospital.*

The relationship of behavioral anxiety, expectancy, and performance measures in a female psychiatric sample. RITA WERTHEIMER AND CONSTANCE NEWBURY, *Yeshiva University and University of Pittsburgh.*

Individual differences in response to delayed auditory feedback in psychiatric patients. R. L. KAHN, M. POLLACK, E. KARP, J. JAFFE, AND M. FINK, *Hillside Hospital.*

Changes in Porteus Maze performance as a function of drug treatment and level of cognitive development. REUBEN MARGOLIS, D. M. ENGELHARDT, NORBERT FREEDMAN, L. D. HANKOFF, AND DAVID MANN, *Downstate Medical Center, State University of New York.*

The effects of two simultaneous cognitive and affective stimuli on a group of chronic schizophrenic patients with suicidal ideation. EMANUEL STARER, *VA Hospital, Northport, New York.*

A test of Mednick's analysis of the thinking disorder in schizophrenia. PAUL J. WOODS, *Hollins College.*

Schizophrenic communication: Experimental studies in tacit coordination. LEONARD SOLOMON, *VA Hospital, Montrose, New York.*

Further qualitative aspects of vocabulary definitions in schizophrenia. JOSEPH RICHMAN, *Albert Einstein College of Medicine.*

The effect of interpersonal factors upon the task performance of chronic schizophrenics. MARVIN HUNTER AND HERBERT SPOHN, *VA Hospital, Montrose, New York.*

Learning

RICHARD YOUTZ, *Barnard College,* Chairman

Transfer of simple and conditional discriminations along a generalization continuum. WERNER K. HONIG, *Denison University.*

Analysis of the role of overlearning in discrimination reversal. M. R. D'AMATO AND H. JAGODA, *New York University.*

The effect of caffeine and seconal on a visual discrimination habit. WILLIAM P. PARÉ, *Boston College.*

Simultaneous and successive discrimination reversal learning in the rat. R. C. GONZALEZ AND B. E. SHEPP, *Bryn Mawr College and University of Cinnecticut.*

Transfer of brightness discrimination from bar pressing to a Y maze. M. R. D'AMATO AND H. JAGODA, *New York University.*

Stimulus generalization in an avoidance situation. MURRAY SIDMAN, *Walter Reed Army Institute of Research.*

Stimulus generalization of absolutely discriminable stimuli. JOHN F. HALL AND WILLIAM PROKASY, *Pennsylvania State University.*

Auditory stimulus generalization in the rat: Gradients of approach and avoidance. HOWARD S. HOFFMAN, *Pennsylvania State University.*

Operant generalization gradients for auditory intensity. ROSEMARY PIERREL AND J. GILMOUR SHERMAN, *Barnard College.*

Personality

LEON GORLOW, *Pennsylvania State University,* Chairman

Studies in efficiency: GSR conditioning as a function of instructions. JULIUS WISHNER, *University of Pennsylvania.*

Social desirability, psychopathology, and item endorsement. ZANWIL SPERBER AND MARVIN SPANNER, *Children's Hospital, Philadelphia, and University of California, Los Angeles.*

Dimensions of perinatal adjustment. EARL S. SCHAEFER AND HELEN MANHEIMER, *National Institute of Mental Health.*

Probability of success and level of aspiration. JAMES C. DIGGORY AND HENRY MORLOCK, *University of Pennsylvania.*

A differential experimental test of Mowrer's guilt theory of anxiety. NICHOLAS STELMASHUK, *Allentown State Hospital.*

The relation of personality factors to conditioning behavior of alcoholics. MURIEL D. VOGEL, *Alcoholism Research Foundation, Toronto, Ontario.*

Normal, hypnotically induced, and feigned anxiety as reflected in and detected by the Minnesota Multiphasic Personality Inventory. ALBERT A. BRANCA AND EDWARD E. PODOLNICK, *University of Delaware.*

Concurrent and construct validity of direct and indirect measures of dependency. MARVIN ZUCKERMAN, EUGENE E. LEVITT, AND BERNARD LUBIN, *Institute of Psychiatric Research.*

Operational definition and construct validity in personality testing. MARTIN WHITMAN, *Columbia University.*

Animal Brain Functions

ROBERT E. CORRELL, *Hartford Hospital,* Chairman

Timing behavior of monkeys after frontal lobectomy. JOHN S. STAMM, *Institute of Living.*

Role of frontal cortex of cat in fear- and hunger-motivated behavior. WARREN W. ROBERTS, ROBERT SHERINS, AND MALCOLM BRODWICK, *Syracuse University and University of California, Los Angeles.*

Severity of deficit following unilateral and bilateral prefrontal lesions in monkeys and chimpanzees. H.

INGER ROSVOLD AND MORTIMER MISHKIN, *National Institute of Mental Health.*

One-trial object discrimination learning in monkeys with frontal lesions. ELINOR S. BRUSH AND MORTIMER MISHKIN, *National Institute of Mental Health.*

Alternation and exploration in rats with hippocampal lesions. WILLIAM N. DEMBER, MALCOLM BRODWICK, AND WARREN W. ROBERTS, *University of Cincinnati, Los Angeles, California, and Syracuse University.*

Further analyses of frontal lobe function in monkeys. J. ORBACH AND A. KAFKA, *Michael Reese Hospital.*

Electrophysiological properties of Auditory Areas I and II of the cat's brain. WILLIAM M. GADDES AND NATHAN B. GROSS, *Lehigh University.*

Spike-and-wave response to light flash recorded from visual cortex of normally-reared albino rats. DOUGLAS KIMURA, *Michael Reese Hospital.*

Effects of tegmental lesions on food-motivated behavior in rats. ANNETTE EHRLICH, *McGill University.*

Sensory Processes

LORRIN A. RIGGS, *Brown University,* Chairman

The effect of unequal monocular brightness on binocular CFF. EVERETT J. DELAHANTY, *Fordham University.*

On the absence of contralateral masking of responses to pulse electrical stimuli. WILLIAM R. UTTAL AND LOUELLA COOK, *IBM Research Center.*

The effect of background illumination on the critical flicker frequency of the peripheral retina. MARY M. CONNORS, *Fordham University.*

Response bias in psychophysical judgments: A test of Luce's model. JOHN VAN LAER, *Northwestern University.*

Magnitude estimation and the frequency of tactile vibration. ROBERT H. GIBSON, *University of Virginia.*

Early experience and quinine hydrochloride preference. F. R. BRUSH AND S. A. AMITIN, *University of Pennsylvania and University of Maryland.*

A psychophysical approach to wave length analysis. JOHN A. SWETS, *Massachusetts Institute of Technology.*

Measurement of the musical interval sense. ANDREW G. PIKLER, *United States Naval Medical Research Laboratory.*

The form of the loudness function near the masked threshold. BERTRAM SCHARF AND JOSEPH C. STEVENS, *Northeastern University and Harvard University.*

Engineering and Military

MARTIN A. TOLCOTT, *Dunlap and Associates,* Chairman

The effects of four levels of display integration on compensatory tracking performance. EDWIN H. ELKIN AND PHILIP B. SAMPSON, *Tufts University.*

Learning multiple key-press patterns for words. G. R. LOCKHEAD AND E. T. KLEMMER, *IBM Research Center.*

Estimation of frequency of position. RICHARD L. SULZER, *United States Air Force Cambridge Research Center.*

Operator performance in flight plan correlation. DONALD B. CAMERON, JOSEPH M. DOUGHTY, AND ALFRED FINCK, *United States Air Force Cambridge Research Center.*

Perception of linear dot patterns. E. T. KLEMMER, *IBM Research Center.*

Photographic analysis of a gross body movement recorded as a stimulus-response pattern. FRANK P. JONES AND JOHN A. HANSON, *Tufts University.*

Information processing times for long and short stimuli sequences containing the same amount of information. R. R. RIESZ AND R. L. DEININGER, *Bell Telephone Laboratories.*

Manual performance following differential rewarming of cold hands. EDWIN RALPH DUSEK, *Quartermaster Research and Engineering Center.*

Degrading visual-motor coordination by exposure to disordered re-afferent stimulation. MALCOLM COHEN AND RICHARD HELD, *University of Pennsylvania and Brandeis University.*

Developmental and Educational

J. R. WITTENBORN, *Rutgers University,* Chairman

Conditionability of mental defectives as related to intellectual and central nervous system deficits. VIOLET FRANKS AND CYRIL M. FRANKS, *New Jersey Neuropsychiatric Institute.*

A developmental study of children's ideas about the content and functioning of the human body. ELIZABETH GELLERT, *Albert Einstein College of Medicine.*

The genesis of social behavior in the human infant. HARRIET L. RHEINGOLD, *National Institute of Mental Health.*

Concept formation: The effect of generality of concept and age of subject. SONIA F. OSLER AND MYRNA W. FIVEL, *Goucher College and University of Pennsylvania.*

An approach to the review of academic curricula. JOHN M. PROCTOR AND ALBERT S. GLICKMAN, *United States Naval Personnel Research Field Activity.*

The consistency of pupil and teacher ratings of personality traits. HELEN H. DAVIDSON AND MILDRED KAYE, *City College, New York.*

Interference effects of Stroop Color-Word Test in children, adults, and aged. PETER E. COMALLI, JR., SEYMOUR WAPNER, AND HEINZ WERNER, *Clark University.*

Critical flicker frequency and its relationship to intellectual functioning in young adults. WILLIAM F. BAKER AND BARBARA ROESCH, *Fordham University.*

The relationship between chronological age and distribution of practice in eyelid conditioning. HARRY W. BRAUN AND RICHARD GEISELHART, *University of Pittsburgh.*

Visual Perception II

JOHN C. ARMINGTON, *Walter Reed Army Institute of Research,* Chairman

Effects on visual symbol identification of symbol density, number of different symbol types, and independence of successive densities. ERNEST SADLER, WARREN H. TEICHNER, AND RAYMOND REILLY, *University of Massachusetts.*

The influence of field articulation and set on spatial orientation. DONALD I. TEPAS, *Walter Reed Army Institute of Research.*

Conflicting perceptual cues and field dependency. LESLIE E. H. LINDAHL, *New Jersey Neuropsychiatric Institute.*

The moon illusion: The problem re-opened. LLOYD KAUFMAN AND IRVIN ROCK, *Sperry Gyroscope Company and Yeshiva University.*

Decrement of the Muller-Lyer illusion: A study of intermodal transfer. RITA G. RUDEL, *New York University.*

The effect of growth on the perception of visual space. ALBERTA GILINSKY, *Kenyon and Eckhardt.*

A method for increasing the perceptibility of afterimages on a bright afterfield: "Flying saucers" as afterimages. RICHARD P. YOUTZ, *Barnard College.*

Stimulus correlates for the judged illumination of a surface. JACOB BECK, *University of Pennsylvania.*

Effect of motor activity on visual recognition threshold. R. M. DOWLING, H. WERNER, AND S. WAPNER, *Clark University.*

Human Learning

ROBERT PATTON, *University of Pittsburgh,* Chairman

Intra-S diffusion in statistical learning theory. WILLIAM F. PROKASY, JR., *Pennsylvania State University.*

Predictions and estimates as a function of π. EDITH D. NEIMARK, *New York University.*

Information deprivation as a motivational variable. AUSTIN JONES, *University of Pittsburgh.*

The item-list difficulty interaction and S-R interchange in rote learning. ANDREW P. CHENZOFF, *Carnegie Institute of Technology.*

Psychophysiological correlates of serial learning: A longitudinal study. PAUL OBRIST, *Fels Research Institute.*

The role of position effects in nonserial paired-associate learning. SAM C. BROWN AND WILLIAM F. BATTIG, *University of Virginia.*

The role of specific interference in retroactive inhibition. JOHN CERASO, *Yeshiva University.*

The effects of failure on negative transfer of training. IRVIN D. RUTMAN, *Fountain House, Philadelphia, Pennsylvania.*

Paired-associated learning with varying percentages of occurrences of alternative response members. MARILYN E. SUGERMAN AND ALBERT E. GOSS, *University of Massachusetts.*

Decision Making

ROBERT R. BUSH, *University of Pennsylvania,* Chairman

Battleship: A study of search behavior. ALBERT E. HICKEY, JR. AND ALEX VEGH, *Itek Corporation.*

Differential monetary gains in a two-choice situation. HARVEY A. TAUB AND JEROME L. MYERS, *University of Massachusetts.*

Bayes estimation of proportion: The performance criterion. EMIR H. SHUFORD AND W. JACKSON HALL, *University of North Carolina.*

The effect of stimulus variability on prediction of magnitude. ANNE W. STORY, *United States Air Force Cambridge Research Center.*

A failure of game theory to predict human behavior. BERNHARDT LIEBERMAN, *Harvard University.*

Effect of value upon expectations of uncertain outcomes. FRANCIS W. IRWIN AND KENNETH BERG, *University of Pennsylvania.*

The range of payoffs in risk taking. JEROME L. MYERS AND ERNEST SADLER, *University of Massachusetts.*

Information processing efficiency in decision making. JOHN R. HAYES AND ELIZABETH C. SMITH, *United States Naval Research Laboratory.*

Attitude Structure

ROBERT FRENCH, *Psychological Corporation,* Chairman

Learning factors as determiners of pretest sensitization ROBERT E. LANA AND DAVID J. KING, *American University.*

Subjective probability estimates as a function of attitude structure. LOUIS MILLER, *University of Rochester.*

Internationalism as a predictor of cooperative behavior. DANIEL R. LUTZKER, *United States Army Hospital, Fort Dix, New Jersey.*

Experimental and scaling analysis of belief organization. THURLOW R. WILSON, *University of Pittsburgh.*

Stylistic components of response to Christie's F scale as related to attitude. EDWARD KLEIN, *VA Hospital, Montrose, New York.*

Cognitive structure and dogmatism. ELI ALSON, *VA Hospital, Lyons, New Jersey.*

Verbal conditioning and generalization of an attitude scale. ROBERT D. SINGER, *Eastern Pennsylvania Psychiatric Institute.*

The effects of an extreme anchor on scale judgments and attitude. WALTER WEISS, *Boston University.*

Attitudes of sighted toward blindness and physical handicap. MARTIN WHITEMAN AND IRVING F. LUKOFF, *Columbia University.*

Avoidance Behavior

FRED S. KELLER, *Columbia University,* Chairman

Aversive conditioning and experimental atherosclerosis. JACOB H. KIRMAN, *Harvard University.*

Effects of pretraining procedures on the acquisition of avoidance responses in the rat. GERARD H. ROTHSCHILD, *University of Michigan.*

Acquisition and extinction of conditioned suppression as a function of shock intensity. ZOLTAN ANNAU AND LEON J. KAMIN, *McMaster University.*

A decrement in the acquisition of conditioned suppression produced by prior experience with shock. LEON J. KAMIN, *McMaster University.*

Response rates and probability of postponing shock with a two-lever avoidance procedure. THOM VERHAVE, *Lilly Research Laboratories.*

Escape performance as a function of the intensity of noxious stimulation. HARRY FOWLER AND MILTON TRAPOLD, *University of Pittsburgh and State University of Iowa.*

The effort factor in the extinction of an avoidance response. JOHN R. ROARK, *VA Hospital, Coatesville, Pennsylvania.*

Concurrent aversive and appetitive behavior control in the rhesus monkey. J. THACH AND J. V. BRADY, *Walter Reed Army Institute of Research.*

Conditioned and unconditioned responses as functions of shock intensity. F. R. BRUSH, D. G. MOOK, AND C. G. DAVIS, *University of Pennsylvania.*

General Clinical

BRIAN E. TOMLINSON, *New York University,* Chairman

Guilt and repression in parents of retarded children: A questionnaire study of attitudes and religious background. G. H. ZUK, RALPH L. MILLER, JOHN B. BARTRAM, AND FREDERICK KLING, *St. Christopher's Hospital for Children and Educational Testing Service.*

Factors determining institutionalization of the retarded. GERHART SAENGER, *New York University.*

An experimental study of desensitization psychotherapy. PETER J. LANG AND A. DAVID LAZOVIK, *University of Pittsburgh.*

The "ideal therapeutic relationship" and counseling outcome. GEORGE G. GONYEA, *University of Texas.*

Sex knowledge, intelligence, and sexual adjustment. LEO SHATIN AND J. ALFRED SOUTHWORTH, *Seton Hall College of Medicine and Dentistry and Albany Medical College.*

The use of a predictive index in psychiatric drug research. THOMAS E. HANLON, *Spring Grove State Hospital.*

Operant Behavior

ROBERT BERRYMAN, *Adelphi College,* Chairman

Differentiation of response amplitude using a constant-torque lever. ROBERT M. HERRICK, *United States Naval Air Development Center.*

"Resistance to extinction" functions in the single organism. ELIOT HEARST, *National Institute of Mental Health.*

A test of the hypothesis of an unconditioned operant reserve. JOSEPH J. ANTONITIS AND ALAN BARON, *University of Maine.*

Operant control of vocalizing in the chicken. HARLAN L. LANE, *Harvard University.*

Switching behavior among three schedules of reinforcement. JACK D. FINDLEY, *University of Maryland.*

Chaining behavior and reinforcement schedule preference in the rhesus monkey. J. V. BRADY AND J. THACH, *Walter Reed Army Institute of Research.*

Intermittent reinforcement of matching to sample. CHARLES B. FERSTER, *Indiana University Medical Center.*

The effects of fixed interval length in the 3–48-second range. FRANCIS MECHNER AND ARTHUR G. SNAPPER, *Schering Corporation.*

Conditioning and maintenance of human behavior by multiple schedules of intermittent reinforcement. LAWRENCE T. STODDARD, MURRAY SIDMAN, AND J. V. BRADY, *Walter Reed Army Institute of Research.*

Vision

ROBERT M. BOYNTON, *University of Rochester,* Chairman

Visual information storage. GEORGE SPERLING, *Bell Telephone Laboratories.*

On the relation of apparent brightness to the threshold for differences in luminance. ERIC G. HEINEMANN, *Vassar College.*

Evoked cortical responses to repetitive photic stimulation. EDA BERGER AND O. GUTIERREZ-COSTA, *Massachusetts Institute of Technology.*

Brief light flash brightness. MILTON S. KATZ, *General Electric Company, Pittsfield, Massachusetts.*

Effects of retinal image motion on acuity. U. T. KEESEY, *Brown University.*

The role of involuntary eye movements in stereoscopic acuity. GEORGE K. SHORTESS AND JOHN KRAUSKOPF, *Brown University and Rutgers University.*

Stereoscopic fusion of colors. NICHOLAS PASTORE, *Queens College.*

Temporal summation between corresponding points of the binocular absolute threshold. LEONARD MATIN, *Columbia University.*

Eye movements during convergence and divergence. LORRIN A. RIGGS AND ELIZABETH W. NIEHL, *Brown University.*

Industrial and Business

HERBERT KRUGMAN, *Raymond Loewy Associates,* Chairman

Personality factors in job perception: A molecular approach. RICHARD P. WALSH, *University of Cincinnati.*

A comparison of the validities of trait and profile methods of scoring a personality test for salesmen. JOHN L. HUGHES, *International Business Machines.*

Relations between elapsed time since BTB testing and prediction of school achievement. DAVID KIPNIS AND JOHN M. PROCTOR, *United States Naval Personnel Research Field Activity.*

A comprehensive sales selection program. J. E. ARON, R. M. HECHT, AND A. A. WITKIN, *Sales Aptitude Testing Corporation.*

Personality profiles of self-made company presidents. JOHN BENNETT, JR., P. F. MERENDA, AND W. V. CLARKE, *Walter V. Clarke Associates.*

Motivation

ABRAHAM MASLOW, *Brandeis University,* Chairman

Three tests of the McClelland Discrepancy Hypothesis. JOHN R. BRAUN, *Bucknell University.*

The effect of social competition and frustration upon the sexual behavior of male guinea pigs. ARNOLD A. GERALL AND HAROLD JARMON, *University of Kansas.*

The effects of deprivation on "counting" and "timing" behavior in rats. LAWRENCE GUEVREKIAN AND FRANCIS MECHNER, *Schering Corporation.*

The effects of deprivation, thwarting, and conflict on the feeding behavior of stickleback fish. BEATRICE TUGENDHAT, *Wellesley College.*

Vigor of response versus elimination of competing responses as the determinant of running speed during food deprivation. GEORGE CICALA, *Princeton University.*

The goal gradient in the activity wheel. ROBERT D. MEADE AND PHILIP J. NEWMAN, *Trinity College.*

A response competition interpretation of irrelevant drive phenomena. ROBERT C. BOLLES AND HENRY MORLOCK, *Hollins College and University of Pennsylvania.*

Motive correlates of level of aspiration strategies. H. BURDICK, R. TEEVAN, AND R. BIRNEY, *Smith College and Amherst College.*

Two measures of general activity during food deprivation and during estrous. FRANK W. FINGER, L. S. REID, AND M. H. WEASNER, *University of Virginia.*

Child

TRACY S. KENDLER, *Barnard College,* Chairman

Stereometric objects versus colored transparencies of objects as stimuli in learning set formation by retarded children. H. J. DE HAAN AND GEORGE WISCHNER, *University of Pittsburgh.*

The learning of absolute and relational number discrimination by children. JOACHIM F. WOHLWILL, *Clark University.*

Children's perceptions and expression of sex preferences. FRANCIS HARDESTY, RUTH HARTLEY, AND DAVID GORFEIN, *City College of New York.*

Parental achievement drives for preschool children, the Vineland Social Maturity Scale, and the Social Deviation Quotient. BORIS M. LEVINSON, *Yeshiva University.*

A study of classical conditioning in the human neonate. LEWIS P. LIPSITT AND K. D. MARUM, *Brown University.*

Delayed reward gradients in children's discrimination learning. CHARLES H. HOCKMAN AND LEWIS P. LIPSITT, *Brown University.*

A case study in discrimination learning. DONALD K. PUMROY AND SHIRLEY S. PUMROY, *University of Maryland.*

Perception

HEINZ WERNER, *Clark University,* Chairman

The influence of hypnotic suggestion upon the word-recognition threshold. HAROLD S. ZAMANSKY AND BERTRAM SCHARF, *Northeastern University.*

Subception or perception of partial cue. MORTON WIENER, *Clark University.*

Some effects of spacing, massing, and rest on the rate of Necker Cube reversals. HERMAN H. SPITZ AND RONALD S. LIPMAN, *Edward R. Johnstone Training and Research Center.*

The occurrence of EEG alpha during shifts of attention. THOMAS CASEY, *VA Hospital, Bedford, Massachusetts.*

Factors affecting body image as measured by perceived arm length. JOSEPH H. MCFARLAND, SEYMOUR WAPNER, AND HEINZ WERNER, *Clark University.*

Sensory deprivation and perceptual lag. SANFORD J. FREEDMAN, *Massachusetts Mental Health Center.*

A two-factor approach to the study of tilt aftereffects. JUDITH H. RICH AND RICARDO B. MORANT, *Radcliffe College and Brandeis University.*

Time factors in perception of a double consonant. J. M. PICKETT AND LOUIS R. DECKER, *United States Naval Research Laboratory and Dunlap and Associates.*

Thinking

DONALD W. TAYLOR, *Yale University,* Chairman

Structural factors in the learning of classifications. H. M. JENKINS AND R. N. SHEPARD, *Bell Telephone Laboratories.*

Difficulty of memorization as a function of complexity of classification. CARL I. HOVLAND, *Yale University.*

Stimulus generalization and abstraction in classification learning. R. N. SHEPARD AND H. M. JENKINS, *Bell Telephone Laboratories.*

Experimental evidence of preconscious functioning in efficient problem solving. SIDNEY J. BLATT, *Michael Reese Hospital.*

A method for the study of creativity as a special case of problem solving. MALCOLM R. WESTCOTT, *Vassar College.*

Perception and mediation in concept learning. SAM GLUCKSBERG, HOWARD H. KENDLER, AND ROBERT KESTON, *New York University.*

On suspending judgment while producing ideas. RAY HYMAN, *General Electric Company.*

Concept formation in art and music. RICHARD D. WALK, *George Washington University.*

Brain Functions

HANS-LUKAS TEUBER, *New York University College of Medicine,* Chairman

Perceptual deficits associated with lesions of the right temporal lobe. DOREEN KIMURA, *McGill University.*

EEG study of attention and expectancy. HELEN MAHUT, *McGill University.*

Experiential factors in ocular equivalence. RONALD E. MYERS, *Walter Reed Army Institute of Research.*

A comparison of the EEG and finger pulse changes accompanying impaired attention following prolonged sleep deprivation and acute chlorpromazine administration. ALLAN F. MIRSKY AND PHILLIPE V. CARDON, JR., *National Institute of Mental Health.*

Interaction of brain injury with peripheral vision and set. HAROLD L. WILLIAMS, CHARLES F. GIESEKING, AND ARDIE LUBIN, *Walter Reed Army Institute of Research.*

Temporal determinants of visual excitability as revealed by electrophysiological techniques. I. H. WAGMAN AND W. S. BATTERSBY, *Mount Sinai Hospital.*

Spatial determinants of visual excitability as revealed by psychophysical techniques. W. S. BATTERSBY AND I. H. WAGMAN, *Mount Sinai Hospital.*

An abnormal high voltage fast EEG rhythm in cerebral palsy. A. K. BARTOSHUK AND D. B. LINDSLEY, *Brown University and University of California, Los Angeles.*

Effects of cerebral lesions on performance in the Wisconsin Card-Sorting Test. BRENDA MILNER, *Montreal Neurological Institute.*

Drugs and Avoidance Behavior

F. ROBERT BRUSH, *University of Maryland,* Chairman

The effects of alcohol upon performance in an avoidance-avoidance learning situation. ROGER BLACK AND ROBERT ADAMSON, *Emory University.*

Effects of chlorpromazine and trilafon on bar pressing in an approach-avoidance conflict. SEBASTIAN P. GROSSMAN, *Yale University.*

Effects of avoidance conditioning on alcohol consumption in monkeys. ROBERT CLARK AND EDWIN POLISH, *Walter Reed Army Institute of Research.*

SYMPOSIA

Clinical Implications of Revisions in Psychoanalytic Drive Theory

JEROME L. SINGER, Chairman

Participants: ROBERT HOLT, SILVAN TOMKINS, AND REUBEN FINE.

Some Contemporary Problems in Animal Motivation

DALBIR BINDRA, Chairman

Participants:

STARLING REID. The interaction between food and water deprivation.

ROBERT C. BOLLES. The selective facilitation hypothesis.

EUGENE EISMAN. Body weight loss as a determinant of hunger drive.

Long Term Confinement and Space Flight

B. J. SMITH, Chairman

Participants:

DONALD W. ORMISTON. A methodological study of confinement.

NEAL M. BURNS. Effects of long term confinement on performance.
PERRY TILLER. Effects of isolation on the concentration of epinephrine and norepinephrine in urine.
RALPH B. ZIEGLER. Effects of long term confinement on personality and perception.
RANDALL M. CHAMBERS. Confinement at high altitudes.

Positive Conceptions of Mental Health: Implications for Research and Service

EDWARD J. SHOBEN, JR., Chairman

Participants:
JOSEPH BOBBITT. Positive mental health: Contributions from group interaction analysis and concepts of role.
ABRAHAM MASLOW. Health as transcendence of the environment.
LESLIE PHILLIPS. Studies in social competence.
EDWARD J. SHOBEN, JR. Mental health and the problem of values.

Some Methodological Considerations in Child-Rearing Research

LEONARD D. ERON, Chairman

Participants:
LEOPOLD O. WALDER. Validating a sociometric measure of aggression.
LEONARD D. ERON. The father as an informant in child-rearing research.
THOMAS J. BANTA. Convergent and discriminant validation of a child-rearing survey questionnaire.
Discussants: HARRY LEVIN AND EMANUEL K. BELLER.

Hierarchy of Personality "Layers" Tapped in Projective Batteries

EMANUEL F. HAMMER, Chairman

Participants: FLORENCE HALPERN, SELMA LANDISBERG, KAREN MACHOVER, AND PERCIVAL SYMONDS.

Treatment of the Poorly Motivated Patient

STANLEY GRAHAM, *Chairman*

Participants:
STANLEY GRAHAM. Parataxic factors in premature termination.
HERMAN RIKELMAN. Differentiation of resistance factors from motivation.
ABRAHAM RING. Transferential influence on levels of patient motivation.
ALFRED JONES. Countertransference reactions to the poorly motivated patient.

Research with the Tomkins-Horn Picture Arrangement Test

JOHN B. MINER, Chairman

Participants:
ANTON MORTON. Large scale testing with PAT in the military setting.
HOWARD MITCHELL. Research with superior children.
JOHN B. MINER. The PAT in industrial selection.
HAROLD SCHIFFMAN. The personality of depressive psychotics.
ROBERT MCCARTER. Achievement motivation and early memories.
MICHAEL NESBITT. Friendship, love, and values.
BERTRAM KARON. The impact of caste and culture on personality.
SILVAN TOMKINS. Recent developments.

Recent Trends in Special Education: Implications for Psychological Theory, Practice, and Training

NATHANIEL N. WAGNER, Chairman

Participants:
RALPH W. COLVIN. Emotionally disturbed children.
I. IGNACY GOLDBERG. Mentally retarded children.
WILLIAM C. BARGER. Brain damaged children.
Discussants:
EDWARD J. SHOBEN, JR. Psychological theory.
HERBERT TURKEL. Training and practice of school psychologists.

Differential Diagnosis in Schizophrenia

GORDON F. DERNER, Chairman

Participants:
ARTHUR C. CARR. The projective test battery in diagnosis of schizophrenia.
GORDON F. DERNER. Methodological and theoretical problems in differential diagnosis.
FLORENCE HALPERN. Problems of differential diagnosis of schizophrenia in children.
SILVAN S. TOMKINS. Differential diagnosis of the paranoid condition.
BENJAMIN B. WOLMAN. Differential diagnosis in terms of power and acceptance.

The Role of the School Psychologist in the Denominational School

BORIS M. LEVINSON, Chairman

Participants:
L. JOHN ADKINS. Evangelical schools.
GENEVIEVE HUNTER. Catholic schools.

BORIS M. LEVINSON. Day (Yeshiva) schools.
ROBERT NORTH. Private and unaffiliated denominational schools.
BENJAMIN PRIEST. Anglican schools.

INVITED ADDRESSES

HOWARD H. KENDLER. Problem Solving. B. R. BUGELSKI, Chairman, and DONALD O. HEBB, Discussant.
JOHN L. KENNEDY. Growing Synthetic Organisms in Synthetic Environments. JESSE ORLANSKY, Chairman, and MORTON DEUTSCH, Discussant.

SPECIAL MEETINGS

Meeting of Departmental Chairmen. JOHN V. GILMORE, Coordinator.
Meeting to Discuss a Proposed New England Psychological Association. M. C. LANGHORNE, Chairman.
Workshop of State Association Officers. Sponsored by the APA Board of Professional Affairs.

FILMS

Failure of intermanual transfer of training in corpus-callosum-sectioned chimpanzees. RONALD E. MYERS.
Starting nursery school: Patterns of beginning. L. JOSEPH STONE.
Psychological and physiological effects of long term confinement. NEAL M. BURNS.

PRESIDENTIAL ADDRESS

JAMES J. GIBSON. The Concept of the Stimulus in Psychology. CARL PFAFFMANN, Chairman.

PROCEEDINGS OF THE THIRTIETH ANNUAL MEETING OF THE ROCKY MOUNTAIN PSYCHOLOGICAL ASSOCIATION

WILBUR C. MILLER, Secretary

University of Denver

THE thirtieth Annual Meeting of the Rocky Mountain Psychological Association was held at the Hotel Colorado in Glenwood Springs, Colorado, on May 5–7, 1960. Approximately 200 persons attended. Members from all six states of the Association—Colorado, Idaho, Montana, New Mexico, Utah, and Wyoming—were in attendance.

Wilson J. Walthal, Jr. served as President for 1959–60. Paul B. Porter succeeded him as President for 1960–61. Bert A. Sappenfield was elected as President-elect and will serve as President for 1961–62. Wilbur C. Miller was elected Secretary for a three-year term.

Members were most impressed with the beautiful setting of Glenwood Springs and the surrounding mountains. Many took advantage of the opportunity to visit Aspen and other nearby scenic places.

The Annual Meeting for 1961 was set for Albuquerque, New Mexico.

PROGRAM

PAPERS

A conceptual system for the classification of psychological tests. G. ALEXANDER MILTON AND WESLEY D. DAVIS, *University of Colorado.*

Development and evaluation of a short form of the Wechsler Intelligence Scale for Children (WISC). DAVID M. GUYOL AND HAROLD E. RUSSELL, *University of Colorado and Brook General Hospital, Fort Sam Houston, Texas.*

Performance of sociopaths on the Impulse-Ego-Superego (IES) Test Battery. SHANNA MCGEE, *Western State College.*

Social desirability and the group Rorschach. DALE LENOUSE, BERNARD SPILKA, ROBERT VAN DE CASTLE, AND A. I. PRINCE, *University of Denver.*

Habituation of the activation system. PAUL B. PORTER, HAROLD C. NIELSON, AND JOSEPH C. SHARP, *University of Utah, VA Hospital, Kansas City, Missouri, and University of Utah.*

Generalization in subcortical conditioning of cats. JAMES M. KNIGHT, HAROLD C. NIELSON, AND PAUL P. PORTER, *University of Utah, VA Hospital, Kansas City, Missouri, and University of Utah.*

Some effects of subshock doses of insulin on learning. PAUL R. FULLER, *Martin Company.*

Behavioral and neuroanatomical effects of fetal X-irradiation of albino rats. JOSEPH C. SHARP, KENNETH R. BIZZEE, AND LYLE A. JACOBS, *University of Utah and University of Utah College of Medicine.*

The role of error density and expectancy in a vigilance task. HENRY C. ELLIS AND A. EDWARD AHR, *University of New Mexico.*

Awareness of a concept: A replication. KEITH G. DAVIS AND HARRIE F. HESS, *University of Colorado and University of Oregon Medical School.*

The effects of same and different names for stimuli on subsequent response similarity. LEEROY BEACH AND MAURICE P. SMITH, *University of Colorado.*

Vicarious conditioning of the GSR to a sound. PATRICIA BARNETT AND DAVID T. BENEDETTI, *University of New Mexico.*

Is there a Zeigarnik effect? JOHN A. WOLFER, *University of Utah.*

The effect of dial face display on the manipulability of combination locks. DAVID W. BESSEMER AND ROBERT M. MORGAN, *University of New Mexico.*

Stimulus generalization of an instrumental response learned under distributed practice. MERRELL E. THOMPSON, *New Mexico State University.*

The incentive values of various goal objects vs. novelty. BEATA JENCKS AND PAUL B. PORTER, *University of Utah.*

Alternation under two variables with number of left and right turns held constant. EDWIN J. MARTIN AND MERRELL E. THOMPSON, *New Mexico State University.*

Extinction and spontaneous recovery of a bar pressing response following different reinforcement schedules. ANDREW E. LEE AND MERRELL E. THOMPSON, *New Mexico State University.*

Perceptual choice as an indication of immaturity in schizophrenia. R. L. VAN DE CASTLE, *University of Denver.*

Dependency in ulcer patients. PETER WEISS, *University of Colorado.*

Second guesses in psychotherapy. RICHARD A. LAKE, *State Hospital South, Blackfoot, Idaho.*

The subjective future in hypnotic age progression. LELAND R. KAISER, ROGER L. DARNELL, AND ROBERT N. MASON, *University of Colorado.*

Analysis of various types of contributions of scientists. CALVIN W. TAYLOR, WILLIAM R. SMITH, AND BREWSTER GHISELIN, *University of Utah.*

A comparison of direct vs. indirect measures of attitude. OAKLEY J. GORDON, *University of Utah.*

A shotgun approach to the study of vocational maladjustment. GERALD MEYER AND JAMES SELKIN, *Utility Workshop of Denver.*

Relationships among the traits of the perceiver and those of the perceived in impression formation. DAVID W. BESSEMER, DAVID T. BENEDETTI, AND ROBERT M. MORGAN, *University of New Mexico.*

Attitudes toward sex-roles and feelings of adequacy in homosexual males. BRENDA A. DICKEY, *University of Colorado.*

Relationships among women's attitudes toward child-rearing, personal values, and acceptance of social role. ELEANOR G. CROW, *University of Colorado.*

Hostility expression among delinquents of minority and majority groups. DON L. SWICKARD AND BERNARD SPILKA, *University of Denver.*

The relationship between cognitive consistency and reactions to two different attitude change procedures. DAVID S. GOCHMAN, *University of Colorado.*

SYMPOSIA

Experiments in Higher Education and the Psychology of Intellectual Growth

HOWARD E. GRUBER, *University of Colorado,* Chairman

Participants: HOWARD E. GRUBER, CAMERON PETERSON, AND MORRIS WEITMAN, *University of Colorado;* AND DONALD HOVEY, *United States Air Force Academy.*

An Examination of Biographical Information as a Predictive Device

R. L. ELLISON, *University of Utah,* Chairman

Participants: R. L. ELLISON, W. NEEDHAM, AND E. NIELSEN, S. MULAIK, *University of Utah.*

Structural Determinants of Conceptual Functioning

O. J. HARVEY, *University of Colorado,* Chairman

Participants: LYLE BOURNE, *University of Utah;* O. J. HARVEY, *University of Colorado;* WILLIAM A. SCOTT, *University of Colorado;* AND BILLY JACK WHITE, *University of Utah.*

Positive Conception of Mental Health: Theoretical and Research Implications

IJA N. KORNER, *University of Utah College of Medicine,* Chairman

Participants: ROBERT ANDERSON, ERNEST G. BEIER, EDWARD C. BECK, AND B. JACK WHITE, *University of Utah;* AND JOHN CAMBARERI, *Ada County Mental Health Center, Boise, Idaho.*

INVITED ADDRESSES

DAVID HAWKINS, *University of Colorado.* What is Left of "Human Nature"?

CRANSTON RADER, *Glenwood Springs, Colorado.*

PRESIDENTIAL ADDRESS

WILSON J. WALTHALL, JR., *University of Wyoming.* The Behavior of Plants: A Neglected Area in Psychology.

PROCEEDINGS OF THE SEVENTH ANNUAL MEETING OF THE SOUTHWESTERN PSYCHOLOGICAL ASSOCIATION

BEATRIX COBB, Secretary

Lubbock, Texas

THE program on March 24–26, 1960 contained both paper presentation and symposia sessions. Symposia topics included several fairly new centers of interest in Southwestern Psychological Association conference history. The role of the psychologist and psychology in the public schools was the emphasis of three symposia: School Psychologists—Round Table Discussion, Mental Health in Teacher Education, and The Role of Counseling Psychologists in the National Defense Education Act Counseling and Guidance Institutes. A new note was introduced relative to the psychologist's contribution in religious training programs in the symposium Values and Limitations of Psychological Examinations in Selection of Ministers. Still another timely series centered around the use of psychologists in the Air Force: Developing a Training Technology: Training Research for Army Air Defense, and Air Force Personnel Research Needs: A Look to the Future. More traditional subject matter was discussed in the symposia dealing with Learning and Performance as a Function of Sensory Stimulation; Social Class, Status, and Psychiatric Diagnosis; Learning and Perception; The Arousal of Hostility; and Training and Utilization of MA Psychologists.

Papers clustered around such factors as Clinical Subjects; General and Experimental; Factors Affecting Achievement, Role, and Status; Factorial Studies in Personality; and Factors Influencing Test Performance.

Special events of the program included a special workshop under the leadership of the Chairman of the APA Board of Professional Affairs for officers of state associations, a Psi Chi Luncheon, and a Luncheon for members of SWPA and the American Academy of Psychotherapists.

The new officers elected were: President 1960–61, Fillmore Sanford, University of Texas; President-elect, John Anderson, University of Arkansas; Secretary, Gordon Anderson, University of Texas. The Treasurer, Ernest Barratt, Texas Christian University, continues for the second year of his term of office.

Special events connected with the Southwestern Psychological Association–Southwestern Association of Medical Psychologists jointly sponsored section of the program included a special presentation of The Living Brain in the Tissue Culture Laboratory and symposia on challenging topics such as Future of Psychoanalysis, Major Phases of Internship Training, and Training Medical Students and Psychiatric Residents in Psychological Techniques. A final treat to the members was an invitation to meet with the Southwestern Group Psychotherapy Association on March 26 where Homosexuality was the topic under discussion.

The recreational highlight was a delightful Polynesian Luau and Dance. Another item of special interest was the Presidential Address, "Some Aspects of Personality Development in Older People," presented by Ruth Hubbard.

PROGRAM

PAPER SESSIONS

Clinical Subjects

BART DANFORD, Chairman

Praise and censure as motivating variables upon the motor behavior and learning of schizophrenics. ROY C. LONG.

Localization of brain lesions by flicker-fusion perimetry: A quantitative method. ARTHUR VEGA, JR. AND OSCAR A. PARSONS.

Attitudes toward mental illness and patient behavior in the mental hospital. LAWRENCE APPLEBY, NORMAN C. ELLIS, JEROME M. SATTLER, AND WILLIAM A ZIMMERMAN.

The end of the test: Its influence on some patients' responses. STEPHEN A. APPELBAUM.

Response to homonyms of antisocial and hypochondriacal psychiatric patients. GEORGE M. FAIBISH.

The effects of distraction upon the performance of brain injured and familial retarded children. DANIEL B. CRUSE.

General and Experimental

SIDNEY J. FIELDS, Chairman

A primate skin temperature transmitter. JAMES E. WICKER, W. LYINN BROWN, AND HUGH C. BLODGETT.

Solution of a common goal problem and nonresponse extinction by rats. LOH SENG TSAI.

Completion of eating and drinking r_g's in latent extinction. JAMES A. DYAL.

Discrimination learning in a runway situation. ALVIN J. NORTH.

Conditioning autokinetic perception. BOBBY J. FARROW AND JOHN SANTOS.

Factors Affecting Achievement, Role, and Status

HAROLD WINER, Chairman

Academic success as related to student participation in voluntary group counseling. J. V. WEST.

Factors influencing the scholastic and social achievement of college freshmen. WILLIAM F. BROWN.

Psychological and social concomitants of adolescent role perception. EDWIN HINDSMAN AND CARSON MCGUIRE.

Relationship between intelligence, peer status, and academic achievement. RALPH L. DUKE AND GEORGE MCBEE.

Factorial Studies in Personality

JOHN GLADFELTER, Chairman

The Institute Nursery School Study. SAMUEL PINNEAU, RONALD C. DILLEHAY, AND JULIUS M. SASSENRATH.

Item analysis of the WHAT Test. WALTER O'CONNELL.

A factor analysis of Gough's California Psychological Inventory. JAMES MITCHELL, JR. AND JOHN PIERCE-JONES.

A factor analysis of Child's Need and Need-Anxiety Scales revised for adolescents. JOHN PIERCE-JONES AND GEORGE MCBEE.

Factor analysis of MMPI and the Mirror-Tracing Task. C. E. KELSEY, JR.

Factors Influencing Test Performance

GEORGE WHITE, Chairman

Influence of anxiety on relationships between intelligence and performance on psychometric tests varying in complexity. BEEMAN N. PHILLIPS, F. J. KING, AND CARSON MCGUIRE.

Task and terminology variation in level of aspiration. EARL JENNINGS, JACKSON B. REID, AND BENJAMIN FRUCHTER.

An evaluation of two principles involved in programed learning devices. COLLEEN CONOLEY, F. J. KING, AND JACKSON B. REID.

An objective measure of defensiveness. JACK HAND AND FRANK G. KELLEY.

A method for suppressing distortion in temperament inventories. HERBERT REYNOLDS AND JACK HAND.

An acquiescence scale for the Guilford-Zimmerman Temperament Survey. WILLIAM D. THOMPSON AND JACK HAND.

SYMPOSIA

The Role of Counseling Psychologists in the National Defense Education Act Counseling and Guidance Training Institutes

Participants: ROYAL EMBREE, GORDON V. ANDERSON, OLIVER H. BOWN, AND WARREN C. BONNEY.

Values and Limitations of Psychological Examinations in the Selection of Ministers

GRAHAM PULKINGHAM, Chairman

Participants: ROYAL EMBREE, EUGENE MCDANALD, JOHN E. HINES, WILLIAM A. CLEBSCH, AND CARL HEREFORD.

School Psychologists—Round Table Discussion

SADIE AARON, Chairman

Learning and Performance as a Function of Sensory Stimulation

DANIEL SHEER, Chairman

Participants:

ARNOLD A. MCDOWELL. Sex and radiation as factors in stimulus cue utilization.

GEORGE T. HAUTY. Effects of an impoverished sensory environment.

DANIEL SHEER. Do we need our cortex?

Developing a Training Technology: Training Research for Army Air Defense

ROBERT G. SMITH, JR., Chairman

Participants:

DAVID COOPER. The Army's Human Factors Research Program.

ROBERT G. SMITH, JR. The concept of a training technology.

JESSE C. RUPE. Research on air defense missile officers.

PAUL G. WHITMORE. Research on missile maintenance technicians.

ROBERT G. SMITH, JR. Research on air defense operators.

JESSE C. RUPE. Anticipating training requirements.

PAUL G. WHITMORE. Developing new instructional techniques.

Mental Health in Teacher Education: A Demonstration Research Project

ROBERT PECK, Chairman

Participants: GLEN E. BARNETT, OLIVER BOWN, JAMES V. MITCHELL, CARSON MCGUIRE, AND FILLMORE SANFORD.

Social Class, Status, and Psychiatric Diagnosis

AUSTIN FOSTER, Chairman

Participants:

E. O. ROESSLE. Sociocultural correlates of diagnosis.

CULLEN MANCUSO. Social stereotypes of clinical diagnosticians.

AUSTIN FOSTER. Society and psychiatry.

Air Force Personnel Research Needs: A Look to the Future

ABRAHAM CARP, Chairman

Participants: JACK BUEL, R. E. CHRISTAL, LOIS ELLIOTT, FRANK FORD, AND LELAND BROKAW.

Learning and Perception

JOHN SANTOS, Chairman

Participants:

ROBERT I. LONG. Cognitive controls and individual differences in learning.

ARNOLD GERALL AND CHARLES SNYDER. Proprioceptive influences upon perceptual learning.

JOHN SANTOS. Perceptual learning on the fringe of awareness.

The Training and Utilization of MA Psychologists

FRANCES CARP, Chairman

Participants: SADIE AARON, ROBERT G. SMITH, JR., AND JAMES W. LAYMAN.

The Arousal of Hostility

PHILIP WORCHEL, Chairman

Participants:

MUZAFER SHERIF. Hostility and intergroup relations.

DONN BYRNE. Interpersonal attraction and attitude dissimilarity.

HAROLD GOLLISHIAN. Family discipline and hostility.

PHILIP WORCHEL. Theoretical dilemmas in the arousal of hostility.

Future of Psychoanalysis

Participants: DAVID MENDELL, HAROLD A. GOOLISHIAN, IRVIN KRAFT, EUGENE C. MCDANALD, AND GRACE K. JAMESON.

Major Phases of Internship Training

JOHN GLADFELTER, Chairman

Participants: IRWIN JAY KNOPF, WILLIAM SEEMAN, SANFORD GOLDSTONE, J. L. MCCARY, PHILLIP WORCHEL, BRENDAN MAHER, AND AUSTIN FOSTER.

PROCEEDINGS OF THE SIXTH ANNUAL MEETING OF THE SOUTHEASTERN PSYCHOLOGICAL ASSOCIATION

SUSAN W. GRAY, Secretary-Treasurer

George Peabody College for Teachers

THE sixth Annual Meeting of the Southeastern Psychological Association was held on March 31–April 2 at the Biltmore Hotel in Atlanta, Georgia. Approximately 575 persons registered at the meetings. The program consisted of 10 symposia, 71 papers, and 2 invited addresses.

The Presidential Address, "The Roles of Psychological Associations," was presented by M. C. Langhorne, of Trinity College, Hartford. The address was followed by the Annual Business Meeting.

The Program Committee consisted of E. Earl Baughman, Chairman, Lyle V. Jones, Eugene R. Long, John Schopler, and John W. Thibaut. Sam C. Webb was Chairman of the Local Arrangements Committee. He was assisted by Melvin Drucker, M. Carr Payne, Jr., Paul Clifford, George Rice, and G. Hugh Russell. Cameron Fincher was in charge of Placement Services. The Election Committee consisted of Winthrop Kellogg, Chairman, Marcus Caldwell, Wallace A. Kennedy, and Barron Scarborough.

Officers for 1960–1961 are: John F. Dashiell, President; Stanford C. Ericksen, President-elect; M. C. Langhorne, Past President; Susan W. Gray, Secretary-Treasurer (1958–1961). Members-at-Large of the Executive Committee are: Richard W. Husband (1958–1961), Paul Siegel (1960–1962), and Irwin A. Berg (1960–1963).

Among items considered at the Annual Business Meeting and at the meeting of the Executive Committee were the following:

1. It was announced that the association is now legally incorporated under a general welfare charter in the State of Tennessee.

2. The Secretary's and the Treasurer's reports were read and approved.

3. The Executive Committee reaffirmed the association's intention to follow the policy of the American Psychological Association on integration. Toward this end, the President appointed a committee which will attempt jointly with similar committees from other learned societies in the South to seek out actively within the region places and hotels where completely integrated meetings may be held. It was hoped that such banding together of societies might exert more influence than any one society alone. Also in line with this reaffirmation of the American Psychological Association's policy, the association voted to meet next year in Gatlinburg, Tennessee, where we may expect full integration for the meeting.

4. The 1961 meetings were set for April 13–15 at Gatlinburg, Tennessee.

5. Dues for 1960–1961 were again fixed at $2.00 for Members and Affiliate Members, and $1.00 for Student Affiliates.

6. New Members for 1960–1961 were:

FULL MEMBERS

Henry B. Adams
Arthur E. Alper
H. E. Babb
Ernest F. Bairdain
Ben Barger
Claude J. Bartlett
Albert M. Barrett
Robert C. Beck
Ralph Bedell
Gus K. Bell
Ray H. Bixler
Joseph C. Bledsoe
Louis J. Broussard
Orpha J. Brown
Paula McKinney Brown
Edward P. Buckley
W. John Cannon
Phillip M. Carman
Augusta S. Clay
William F. Crowder
Waid H. Dean
Donald W. Drewes
Joseph J. Duetsch
William J. Eichman
Roland L. Frye, Jr.
William I. Gardner
Ila H. Gehman
W. Scott Gehman
Bert A. Goldman
June Good
Felix C. Gotschalk
Clifton W. Gray
Jack D. Hain
Melvene D. Hardee
Lenore M. Harvey
John R. Hills
Lorain Hite
Jack E. Hokanson
Owen Jacobs
Nelson F. Jones, Jr.
Richard A. King
Rupert A. Klaus
Ernest L. Kronvall
Ernest R. Larsen
R. L. Leadingham
Eva L. Llewellyn
Samuel B. Lyerly
Syvil Marquit
Elmore Martin
C. T. Martocci
Ronald W. Mayer
Ruth S. Mitchell
Ray Naar
Donald R. Pearson
Dudley F. Peeler, Jr.
Herman Salzberg
Sue V. Saxon
Jerome D. Schein
Franklin J. Shaw
Hix P. Slagle, Jr.
Herbert K. Stone
James M. Tanner
Ralph T. Tesseneer, Jr.
E. R. Thomas
Robert N. Vidulich
Ernest O. Watkins
William S. Wells
John E. Williams
Lawrence S. Wrightsman, Jr.

AFFILIATE MEMBER

Earl D. Sumner

STUDENT AFFILIATES

Robert G. Addison
Carolyn W. Ashcraft
Ira Harvey Bernstein
Robert A. Bragg
Frank L. Brown
Oran B. Dent
Philip W. Drash
C. J. Dunkleberger
James E. Greene, Jr.
John D. Hall
Mary Frances Hall
Richard C. Hazen
Quana R. Jones
Frank M. Koen
Thomas R. McConnell, Jr.
Richard K. McGee
Robert B. McIntyre
Henry M. Moore, Jr.
Richard W. Paine
Frank H. Price, Jr.
Louise C. Reilly
Harold H. Rosen
William S. Rouse
Clarence J. Spain
Donald J. Stedman
Weldon O. Sullinger
Sue Emily Watts
Gerald M. Wehmer
John J. Wittrig
Gerald P. Wolf
George W. Young

PROGRAM

PAPERS

Human Learning

WILSE B. WEBB, *University of Florida*, Chairman

Operant conditioning of the GSR. H. D. KIMMEL AND F. A. HILL, *University of Florida.*

Isolation effects in paired associate learning. SLATER E. NEWMAN AND ELI SALTZ, *North Carolina State College and Wayne State University.*

Strength of S-R and R-S pairs as a function of number of S-R trials. SAMUEL W. WARD AND SLATER E. NEWMAN, *North Carolina State College.*

An experimental analysis of short-term retention of sequentially presented items. R. H. HENNEMAN, L. S. REID, AND H. R. BRACKETT, *University of Virginia.*

Social Psychology

KURT W. BACK, *Duke University*, Chairman

A study of the North Carolina State College students' attitudes toward labor unions. ROBERT EUGENE KINCH, *Winston-Salem.*

The effect of group size on coalescence. ROLAND L. FRYE AND THOMAS M. STRITCH, *Mississippi Southern College.*

Correlates of effective group membership. ROBERT S. SOAR AND NORMAN D. BOWERS, *Vanderbilt University and University of North Carolina.*

Simulation of immediate reinforcement in developing group discussion skills. M. RAY LOREE AND MARGARET B. KOCH, *Louisiana State University.*

The effects of small-group discussion without knowledge of results on retroactive interference. JOHN E. ANDERSON, JR., *Florida State University.*

The social desirability variable in behavior description. T. O. JACOBS AND C. J. LANGE, *Human Resources Research Office.*

Personality

BURKE M. SMITH, *VA Hospital, Roanoke*, Chairman

Response sets, authoritarianism, and statistical rigidity. HENRY E. ADAMS, *Louisiana State University.*

The self-awareness of authoritarians. LAWRENCE S. WRIGHTSMAN, JR., *George Peabody College for Teachers.*

Authoritarianism and ratings of personality. LAWRENCE S. WRIGHTSMAN, JR. AND CAROLYN W. ASHCRAFT, *George Peabody College for Teachers.*

Personality and race problems. JOHN B. WOLFE, *University of Mississippi.*

Some physiological and behavioral concomitants of experimentally aroused anger. JACK E. HOKANSON, *Florida State University.*

Clinical

Patients' attitudes toward hospital care. BEN A. HAMMACK AND CYRIL R. MILL, *Eastern State Hospital, Williamsburg and Virginia Department of Mental Hygiene and Hospitals.*

Interprofessional awareness of role. CYRIL R. MILL AND ARTHUR CENTOR, *Virginia Department of Mental Hygiene and Hospitals and Southwestern State Hospital, Marion, Virginia.*

The attitude of industrial employers toward hiring of former state hospital mental patients. VYTAUTAS J. BIELIAUSKAS AND HARVEY E. WOLFE, *Xavier University and Longview State Hospital.*

Physiological and Experimental

HOWARD G. MILLER, *North Carolina State College*, Chairman

A comparison of two electrodermal measures of response to stress. F. A. HILL AND H. D. KIMMEL, *University of Florida.*

A differential investigation of avoidance-reduction versus hyperactivity following frontal ablation. BRENDAN A. MAHER, CHARLES D. NOBLIN, AND S. THOMAS ELDER, *Louisiana State University.*

Apparent weight as a function of hue. M. CARR PAYNE, JR., *Georgia Institute of Technology.*

The effect of red-white split lens goggles on dark adaptation thresholds for simple figures. P. N. STRONG, JR., *Martin Company.*

Statistics and Measurement

M. JOYCE HAYES, *Queens College*, Chairman

On partitioning chi square for analyses of multiple classification designs. EARL A. ALLUISI AND KELLOGG V. WILSON, *Emory University and Kent State University.*

An empirical investigation of the effects of nonnormality upon the sampling distribution of the product-moment correlation coefficient. RAYMOND C. NORRIS AND HOWARD F. HJELM, *George Peabody College for Teachers and United States Office of Education.*

Obtaining the normal equations without calculus. OLIVER L. LACEY, *University of Alabama.*

Deviation from matching on item indices as a predictor of forced-choice response. CLAUDE J. BARTLETT, *George Peabody College for Teachers.*

The detection of guess responses in the rating of statements by the method of successive categories. LEE E. PAUL AND HOWARD W. HEMBREE, *Quartermaster Research and Engineering Field Evaluation Agency, Fort Lee, Virginia.*

Personality

W. GRANT DAHLSTROM, *University of North Carolina*, Chairman

Student perceptions of the academician: I. Salaries. JOHN E. ANDERSON, JR., *Florida State University.*

The relation of self-concept to success in the sales management field. PETER F. MERENDA, HAROLD R. MUSIKER, AND WALTER V. CLARKE, *Walter V. Clarke Associates, Inc.*

Need affiliation: Approach vs. avoidant orientation. RICHARD N. CARRERA, *VA Hospital, Richmond.*

The relationship of phenomenological empathy to certain personality and interpersonal variables. STANLEY A. SPEAL, *Chattanooga Guidance Clinic.*

Personality similarity, positive affect, and interpersonal attraction. CARROLL E. IZARD, *Vanderbilt University.*

Personality attributed to voices. THOMAS M. STRITCH, ROLAND L. FRYE, AND MORTON RABIN, *Mississippi Southern College.*

Physiological

GILBERT W. MEIER, *Vanderbilt University*, Chairman

The effect of a psychic energizer on alertness and reading disability. THOMAS M. STRITCH, ROLAND L. FRYE, W. J. HUDDLESTON, RAY S. MUSGRAVE, AND RALPH C. STAIGER, *Mississippi Southern College.*

The effect of drugs and procedures on the amount eaten. THOMAS ELDER AND DONALD J. LEWIS, *Louisiana State University.*

The effects of repeated saline stomach loads on water regulation in the rat. ROBERT C. BECK AND LAWRENCE I. O'KELLY, *Wake Forest College and University of Illinois.*

Indirect fetal irradiation effects in the development of behavior in the rat. GILBERT W. MEIER, *Vanderbilt University.*

Childhood and Adolescence

CAROL C. BOWIE, *North Carolina College*, Chairman

Prediction of classroom discipline problems. ALFRED A. BAUMEISTER AND CLAUDE J. BARTLETT, *George Peabody College for Teachers.*

A comparison of the perceptions of teachers and students concerning the status of discipline and morale among white and Negro high school students in a large southeastern school system. JAMES E. GREENE AND FRANCES GOTESKY, *University of Georgia.*

Evaluation of the understanding of child behavior. WILLARD H. NELSON, *Florida State University.*

Comparability of Peabody Picture Vocabulary Test scores under group and individual administration. RAYMOND C. NORRIS, JOHN V. HOTTEL, AND SADYE BROOKS, *George Peabody College for Teachers.*

Human Learning

JOHN D. KELTON, *Davidson College*, Chairman

Belief congruence and cognitive isolation in paired-associate learning. ROBERT N. VIDULICH, HENRY ADAMS, AND SEYMOUR GREENBAUM, *Louisiana State University.*

Manifest anxiety as a factor in completed-incompleted task recall. JACQULYN S. CLEMENTS, *Indiana University.*

Incentive value of selected adjectives as measured by scaling and learning methods. HARRY R. BARKER AND COOPER C. CLEMENTS, *Emory University.*

The TUTOR as a teaching machine. VIRGINIA ZACHERT, *Western Design, Keesler Air Force Base.*

Clinical

JOSEPH G. DAWSON, *University of Florida*, Chairman

Group psychotherapy evaluation studies: A review and critique. HENRY C. RICKARD, *VA Hospital, Tuscaloosa.*

Reliability of content-free group verbal behavior. HENRY C. RICKARD, EDWIN O. TIMMONS, AND ROBERT E. TAYLOR, *VA Hospital, Tuscaloosa, and University of Tennessee.*

Socioeconomic status and a university psychological clinic. HARRY LEWIS AND MALCOLM ROBERTSON, *University of Florida.*

Behavioral reactions of psychiatric patients to brief sensory deprivation. HENRY B. ADAMS, RICHARD N. CARRERA, AND ROBERT G. GIBBY, *VA Hospital, Richmond.*

The effects of counseling on "self" concept and "ordinary person" concept. JOHN E. WILLIAMS, *Wake Forest College.*

Five little Lolitas and how they grew. ROBERT V. HECKEL, *Talmadge Hospital, Augusta.*

Animal Behavior

DONALD J. LEWIS, *Louisiana State University,* Chairman

Recovery from an approach-avoidance conflict following ablation of the frontal cortex. CHARLES D. NOBLIN, S. THOMAS ELDER, AND BRENDAN A. MAHER, *Louisiana State University.*

Recovery from an approach-avoidance conflict as a function of distance vs. dissimilarity from the original situation. S. THOMAS ELDER, CHARLES D. NOBLIN, AND BRENDAN A. MAHER, *Louisiana State Unisity.*

The comparative effects of chlorpromazine, restraint, and displacement experience upon recovery from an approach-avoidance conflict. BRENDAN A. MAHER AND PATSY CHAPOTON, *Louisiana State University.*

Acquisition and extinction of the running response in the rat as a function of the variability of magnitude of reward. ROGER W. MCINTIRE, *Louisiana State University.*

Altruistic behavior in albino rats. GEORGE E. RICE AND PRISCILLA GAINER, *Agnes Scott College.*

Childhood and Adolescence

RAYMOND C. NORRIS, *George Peabody College for Teachers,* Chairman

Psychological measurements of "future scientists." WALLACE A. KENNEDY AND STAFF OF HUMAN DEVELOPMENT CLINIC, *Florida State University.*

An experimental study of the relationship between aggression and satiation in nursery school children. HARDIS H. SAUNDERS, *Louisiana State University.*

Effects of failure in intellectually retarded and normal groups: A social learning theory interpretation. WILLIAM I. GARDNER, *University of Mississippi.*

The effect of concrete reinforcement on the Stanford-Binet scores of Negro and white first grade students. NORMAN TIBER, *Florida State University.*

The effects of special preschool experience on achievement of culturally deprived children. CLARENCE J. SPAIN, *George Peabody College for Teachers.*

Adolescent personality as revealed by the structured objective Rorschach test. R. TRAVIS OSBORNE AND ARLENE SEGAL, *University of Georgia.*

Psychopathology

FRED Y. BILLINGSLEA, *VA Center, Jackson,* Chairman

Projective trait attribution in paranoid and nonparanoid subjects. STANLEY BLUMBERG AND BRENDAN A. MAHER, *Northwestern University and Louisiana State University.*

An investigation of attention and relative participation as significant variables in experimentation with schizophrenic subjects. SIDNEY A. WOHL, *VA Hospital, Tuscaloosa.*

The effects of controlled "distraction" on molar variability in the mental defective. DONALD E. JACKSON, *University of Alabama.*

The Piaget test of immanent justice responses compared for several patient-non-patient populations. HERBERT C. HART, *Bryce Hospital, Tuscaloosa.*

The IES test as a predictor of disciplinary difficulties. RAYMAN W. BORTNER, *VA Center, Kecoughtan.*

A negative note on the Children's Manifest Anxiety Scale. WILLIAM S. JONES, *University of North Carolina.*

Animal Behavior

MARY G. CLARKE, *University of North Carolina,* Chairman

The effects of environmental factors on chimpanzee response to novelty. CHARLES M. ROGERS, EMIL W. MENZEL, JR., AND RICHARD K. DAVENPORT, JR., *Yerkes Laboratories of Primate Biology.*

Utilization of various visual cues by young isolation-reared chimpanzees. EMIL W. MENZEL, JR., RICHARD K. DAVENPORT, JR., AND CHARLES M. ROGERS, *Yerkes Laboratories of Primate Biology.*

Maternal care during infancy: Its effect on weight gain and mortality in the chimpanzee. RICHARD K. DAVENPORT, JR., EMIL W. MENZEL, JR., AND CHARLES M. ROGERS, *Yerkes Laboratories of Primate Biology.*

SYMPOSIA

Functions of the Frontal Cortex

BRENDAN A. MAHER, *Louisiana State University,* Chairman

Participants:

HARLEY S. SHANDS, *University of North Carolina School of Medicine.* Anticipation and the function of the frontal cortex.

WALTER ISAAC, *Emory University.* Frontal lobes and activation.

BRENDAN A. MAHER, *Louisiana State University.* Frontal cortex and anxiety reduction.

Discussants: WAID H. DEAN, *Louisiana State University School of Medicine;* AND FREDERICK A. KING, *University of Florida College of Medicine.*

Approaches to Positive Mental Health

SUSAN W. GRAY, *George Peabody College for Teachers,* Chairman

Participants:

SIDNEY M. JOURARD, *University of Florida.* Inward look, hope, and healthy personality.

GILBERT W. MEIER, *Vanderbilt University.* Early experience, development, and stress behavior.

JULIUS SEEMAN, *George Peabody College for Teachers.* Personality integration, performance, and value.

Graduate Training in Social Psychology

JOHN W. THIBAUT, *University of North Carolina,* Chairman

Participants: KURT W. BACK, *Duke University;* JACK BREHM, *Duke University;* SAMUEL FILLENBAUM, *University of North Carolina;* EDWARD E. JONES, *Duke University;* HENRY W. RIECKEN, *National Science Foundation;* AND HARRY S. UPSHAW, *University of North Carolina.*

Engineering Psychology Comes of Age

RICHARD H. HENNEMAN, *University of Virginia,* Chairman

Participants:

EARL A. ALLUISI, *Emory University.* Infancy: Dials and knobs.

OSCAR S. ADAMS, *Lockheed Aircraft Corporation.* Childhood: Information processing.

THEODORE R. VALLANCE, *Human Resources Research Office.* Adolescence: The man-machine systems concept.

HOWARD L. PARRIS, *United States Air Force Aerospace Medical Laboratory.* Adventurous youth: Engineering psychology in the space age.

A Program of Alcoholism Research

RAYMOND D. FOWLER, *University of Alabama,* Chairman

Participants:

NIMROD T. FRAZER, *Alabama Commission on Alcoholism.* The research objectives of the Alabama Commission on Alcoholism.

DEMPSEY F. PENNINGTON, JR., *University of Alabama.* A survey of incidence of alcoholism and treatment facilities in Alabama.

GEORGE E. PASSEY, *University of Alabama.* Derivation of knowledge and attitude scales relating to alcohol and its use.

RAYMOND D. FOWLER, *University of Alabama.* Social and psychological factors in alcoholism.

The Compleat Man

FRANKLIN J. SHAW, *University of Alabama,* Chairman

Participants: EARL BROWN, *Emory University;* SIDNEY M. JOURARD, *University of Florida;* RODERICK O'CONNOR, *O'Connor and Associates, Atlanta;* AND CLIFFORD SWENSEN, *University of Tennessee.*

The Introductory Course: Some Moot Questions of Content

JOHN F. DASHIELL, *Wake Forest College,* Chairman

Participants:

IRWIN A. BERG, *Louisiana State University.* White rats vs. Mickey Mice.

STANFORD C. ERICKSEN, *Vanderbilt University.* Facts and figures vs. the great ideas.

FRANK W. FINGER, *University of Virginia.* Interests: The one vs. the many.

GRANVILLE C. FISHER, *University of Miami.* The atomistic vs. the holistic.

THOMAS F. GILBERT, *University of Alabama.* One doctrine vs. the field.

Current Developments in Operant Conditioning

NORMAN GUTTMAN, *Duke University,* Chairman

Participants: THOMAS F. GILBERT, *University of Alabama;* RICHARD A. KING, *University of North Carolina;* EUGENE R. LONG, *University of North Carolina;* AND L. BENJAMIN WYCKOFF, *Emory University.*

The Facts and Artifacts of Personality Screening

M. J. BRENNAN, *VA Hospital, Augusta,* Chairman

Participants:

GEORGE S. WELSH, *University of North Carolina.* General aspects of screening from a research point of view.

JOSEPH E. MOORE, *Georgia Institute of Technology.* Personality and adjustment screening devices used by business and industry.

HERDIS L. DEABLER, *VA Center, Biloxi.* Admission screening in a psychiatric hospital.

DAVID S. SHAPIRO, *Bradley Center.* The usefulness of screening techniques in a mental hygiene clinic.

THEODORE LANDSMAN, *University of Florida.* Human dignity, pupil placement plans, and school screening.

Psychologists as Consultants to Management

ROBERT S. BEECROFT, *R. S. Beecroft & Associates, Charlotte,* Chairman

Participants: ROBERT C. BLEKE, *Rohrer, Hibler & Replogle, Atlanta;* ROBERT L. BROWN, *Brown & Associates, Greenville;* ROBERT J. FILER, *Psychological Consultants, Inc., Richmond;* AND HOWARD G. MILLER, *North Carolina State College.*

INVITED ADDRESSES

THOMAS PETTIGREW, *Harvard University.* Social Psychological Contributions to Desegregation Research.

RALPH MCGILL, Editor, *The Atlanta Constitution,* Discussant.

GREGORY A. KIMBLE, *Duke University.* Total Behavior: The Conditioned Eyelid Reflex.

SPECIAL PROFESSIONAL EVENTS

Special Meetings at the Southern Regional Education Board Office for Chairmen of Departments Offering Graduate and Undergraduate Programs in Psychology.

Workshop. Sponsored by the APA Board of Professional Affairs.

Psychologists in Research in Mental Health: Report on a Survey in Sixteen Southern States. WILLIAM P. HURDER, *Southern Regional Education Board,* Chairman.

Veterans Administration Meeting of Staff Members, Trainees, and Consultants to Discuss Progress and Changes in the Veterans Administration Psychology Program.

Psi Chi meetings.

PROCEEDINGS OF THE FIFTY-SECOND ANNUAL MEETING OF THE SOUTHERN SOCIETY FOR PHILOSOPHY AND PSYCHOLOGY

DAN R. KENSHALO, Secretary

Florida State University

APPROXIMATELY 200 members, friends, and guests of the Southern Society for Philosophy and Psychology met at the Buena Vista Hotel in Biloxi, Mississippi, for its fifty-second meeting on April 14–16, 1960. The hosts for this meeting were the Departments of Philosophy and Psychology of Florida State University and the University of Florida. Local arrangements were under the direction of Herdis L. Deabler, of the VA Hospital, Gulfport, Mississippi, and Virginia Zachert, Keesler Air Force Base, Biloxi, Mississippi. The program was under the co-chairmanship of James W. Clark and Paul S. Siegel, both of the University of Alabama, with Milton H. Williams, Marten Ten Hoor, George E. Passey, and Oliver L. Lacey, all of the University of Alabama, serving as members of the general program committee.

At the annual business meeting, in addition to the receipt of committee reports and conduct of SSPP business, the following psychologists and philosophers were elected to membership in the society:

MEMBERSHIP

Earl A. Alluisi	Frederick A. King
Wilhelm F. Angermeier	Walter W. Leach
Harry Bear	Michel Loeb
Edward Bilodeau	Daniel S. Lordahl
Robert William Binkley	John Daniel Lyons
Melvin P. Bishop	Winton Howard Manning
Louisa Shannon DuBose	Morton H. Rabin
Wayne Orien Evans	John R. Reid
Herbert P. Froehlich	Vernon H. Schaefer
Roland L. Frye	Jerome Daniel Schein
Alexander Duff Gordon	Marion E. Shaw
Charles Hill	Thomas M. Stritch
Milton H. Hodge	Joseph Sutton
Jarboe, Everett E.	John W. Sweigart, Jr.
Leonard Everett Jarrard	Robert F. Williamson
Nelson F. Jones, Jr.	Virginia Zachert

ASSOCIATE MEMBERSHIP

William Robert Atchley	Keith R. David
Bowman Lafayette Clarke	F. R. Harrison, III
Lucio Chiaraviglio	Byron P. Sperow
Ramona Theresa Cormier	Oscar N. Walley, Jr.

The following officers of the society were elected: Rubin Gotesky, President; William M. Hinton, President-elect; Dan R. Kenshalo, Secretary; James Vanderplas, Member of Council for Psychology; and Leroy Loemker, Member of Council for Philosophy. Edgar Henderson will continue to serve as Treasurer; and Stanford Ericksen, Harold Lee, William Bevan, and Merritt Moore will continue to serve as Council Members.

The members accepted an invitation from Emory University to hold the next meeting in Atlanta, Georgia.

At the first joint session the "History of the Southern Society for Philosophy and Psychology" was presented by Marjorie S. Harris, of Randolph-Macon Woman's College. Harold N. Lee, of Tulane University, served as chairman of the second joint session at which a paper was presented by Donald R. Meyer, of Ohio State University, entitled "The Central Nervous System and the Mind-Body Problem Revisited." Carl H. Hamburg, of Tulane University, commented on Meyer's paper.

The Presidential Address, entitled "The Choice of the Problem" was given by Wilse B. Webb, of the University of Florida.

The special award papers were presented by William Thomas Blackstone, of the University of Florida, on "Can Science Justify an Ethical Code?" and by Daniel Smersh Lordahl, of Washington University, on "Concept Identification as a Function of the Amount of Irrelevant Information in Simultaneously Presented Visual and Auditory Signals." These are selected annually from among those papers presented by members who have not yet received their PhD degrees or who have received them within the past five years.

The Council Committee on Membership Standards, composed of Webb, Hahn, and Ericksen, proposed to amend the Constitution with regard to the qualifications for membership. The reason for the proposed amendments to the Constitution is that, since the formation of SSPP in 1904, the role of the SSPP has become increasingly clear. This role is that of making available for psychologists an organization devoting its primary energies to providing a platform and a congenial convention atmosphere for the academic-experimental-theoretical aspects of our discipline in contrast to those activities generally designated as professional or applied in nature. In reviewing the membership ap-

plications, the Council noted that a small number of applications did not seem to reflect this orientation in either the backgrounds presented or their currently designated employment. As a result of this, the Council appointed a committee to attempt to clarify the membership requirements of SSPP in order to minimize the possibility of individuals applying for membership under false impressions concerning the nature of the society. The committee proposed the following amendments to the Constitution:

Under Article II, Paragraph 2, include: "Normally this will be interpreted to mean that the applicant has a Ph.D. degree, and is devoting a major professional effort in a teaching and/or research capacity. Persons without a Ph.D. degree may be eligible for associate membership with the expectation that they can be advanced to full membership after three years of continued and active involvement in the teaching or research of Philosophy or Psychology."

Under Article II, Paragraph 3, amend as follows: substitute "two (2)" years of satisfactory graduate work instead of the "one (1)" now shown.

PROGRAM

PSYCHOLOGY PAPER SESSIONS

General

W. A. WILBANKS, *University of Mississippi*, Chairman

Concept identification as a function of the amount of irrelevant information in simultaneously presented visual and auditory signals. DANIEL SMERSH LORDAHL, *Washington University*.

Primary versus primary-secondary discriminative ratios. HENRY F. DICKENSON, *Lincoln Memorial University*.

Physical characteristics attributed to voices. RAY S. MUSGRAVE, WILLIAM R. ATCHLEY, THOMAS M. STRITCH, AND ROLAND L. FRYE, *Mississippi Southern College*.

Quantitative differences in the fear, sex, disgust, and suspicion complexes of college students as related to their age, sex, academic level, marital status, and college generation. KEY L. BARKLEY, *North Carolina State College*.

The social desirability variable and achievement: A longitudinal study. R. TRAVIS OSBORNE AND WILMA B. SANDERS, *University of Georgia*.

Social adequacy and prognosis in alcoholism. RAYMOND D. FOWLER AND RICHARD SCHNEIDER, *University of Alabama and Florida State University*.

Response Processes

THOMAS F. GILBERT, *University of Alabama*, Chairman

Food intake in relation to privation and the dark-light cycle. JOHN L. BERNARD AND PAUL S. SIEGEL, *University of Alabama*.

Investigation of nonconsummatory reinforcement in the dog. W. T. JAMES, *University of Georgia*.

Size judgment and the horizontal-vertical illusion in the chimpanzee. EMIL W. MENZEL, JR., *Yerkes Laboratories of Primate Biology*.

Some behavioral effects of pyrogallol and iproniazid. L. J. PEACOCK, *University of Georgia*.

The influence of sensory input on cage activity in cats. WALTER ISAAC, WALTER G. REED, AND J. FAYE PRITCHARD, *Emory University*.

Effect of prolonged shock stress on timidity and emotional elimination in the rat. K. E. MOYER, *Carnegie Institute of Technology*.

Learning I

H. D. KIMMEL, *University of Florida*, Chairman

An empirical study of game theory. OLIVER L. LACEY AND JAMES L. PATE, *University of Alabama*.

Effect of stimulus similarity on sensory perconditioning within a single stimulus dimension. STEPHEN B. KENDALL AND RICHARD F. THOMPSON, *Emory University and University of Oregon Medical School*.

The influence of early experience on the frustration effect. ELIZABETH PENICK AND ABRAM AMSEL, *Newcomb College and Tulane University*.

An analysis of the development of frustration due to unexpected nonreward. H. D. KIMMEL AND FRANCES A. HILL, *University of Florida*.

Arousal: A stimulus dimension in avoidance conditioning. DONALD P. FOSHEE, *Vanderbilt University*.

Criteria for a theory of conflict. JOHN M. ATTHOWE, *University of Alabama*.

Learning II

LOH SENG TSAI, *Tulane University*, Chairman

The role of frustration in spontaneous activity. MURRAY S. WORK AND ABRAM AMSEL, *Tulane University*.

The need for both teleological and deterministic concepts in motivation theory. EDWARD NEWBURY, *University of Kentucky*.

Probable cues as a basis for learning to judge. JAMES CALVIN, *University of Kentucky*.

An experimental investigation of the effect of incentives in a clossroom learning situation. CARL J. SPIES, GEORGE DOUGLAS MAYO, AND WINTON H. MANNING, *Washington University*.

Overt vs. covert problem solving and transfer effects. LOH SENG TSAI, *Tulane University*.

The effect of partial reinforcement on task completion in the absence of supervision. RONALD F. FRYE, THOMAS M. STRITCH, AND RAY S. MUSGRAVE, *Mississippi Southern College.*

PSYCHOLOGY SYMPOSIA

The Role of Experimentation in Clinical Psychology

JOEL GREENSPOON, *Florida State University,* Chairman

Participants: HOWARD BAKER, *Florida State University;* FRANKLIN B. SHAW, *University of Alabama;* AND HERDIS DEABLER, *VA Hospital, Gulfport, Mississippi.*

Current Concepts in Physiological Psychology

GILBERT W. MEIER, *Vanderbilt University,* Chairman

Participants:

WALTER ISAAC, *Emory University.* Arousal or tonus.

DANIEL R. KENSHALO, *Florida State University.* Peripheral mechanisms of cutaneous sensation.

FREDERICK A. KING, *University of Florida.* A consideration of processes underlying experimental brain injury and brain stimulation.

GILBERT W. MEIER, *Vanderbilt University.* A neural-hormonal mechanism in the development of behavior.

ROBERT THOMPSON, *George Peabody College for Teachers.* A neurological memory system in the rat.

Current Trends in Research on Form Perception

MARION E. BUNCH, *Washington University,* Chairman

Participants:

EARL A. ALLUISI, *Emory University.* Contribution of information measures to studies of form perception.

MALCOLM D. ARNOULT, *Texas Christian University.* Psychophysics of form perception.

JAMES M. VANDERPLAS, *Washington University.* Relations of learning to form perception.

Research in Military Laboratories

SAUL B. SELLS, *Texas Christian University,* Chairman

Participants: PRESTON S. ABBOTT, *United States Army Infantry Human Research Unit, Fort Benning, Georgia;* J. W. BOWLES, *Personnel Laboratory, Lackland Air Force Base, Texas;* HENRY A. IMUS, *United States Naval School of Aviation Medicine, Pensacola, Florida;* J. DANIEL LYONS, *United States Army Aviation Human Research Unit, Fort Rucker, Alabama;* AND G. DOUGLAS MAY, *Research Branch, Naval Air Technical Training Command, Memphis, Tennessee.*

Comment

The Estes Park Report and Cervin's Comments

Courteously but firmly, Cervin denies the validity of the main conclusions of the Estes Park seminar (*Amer. Psychologist*, 1960, **15**, 158–159). He considers that we took too narrow a view: namely, that of our own personal experiences. Fortunately, we cannot be accused of egotism if we did, in view of our conclusion that the scientist is a messy, illogical thinker—much of the time anyway. But we did really take into account everything that we knew about other workers, from the literature as well as from observation of our own teachers and friends. And wherever it seemed that we got to the inside story, to the facts of how a scientist operates as distinct from what he says when he reports an experiment, all the indications pointed in the same direction.

To show that this was wrong, that the stereotype of science is a true picture, Cervin cites the end product in several cases and, without adducing any evidence to justify it, *assumes* that the form of the end product reproduces the logical steps by which the discovery was achieved. Merely saying that Curie, Einstein, and Pavlov were wholly logical does not show that they were. In short, the comment begs the question at issue.

In one of his cases at least, Cervin's account is less than adequate. He says that

> Pavlov's research was an outgrowth of a basic philosophical assumption that psychological phenomena can be studied by the methods of natural science. The stereotype, far from being either a fiction or a mere picture of confirmatory activities, is a schematic picture of the actual history of some great scientific discoveries.

As a matter of fact, Pavlov's first discovery of the "psychic reflex" was no product of a basic philosophic assumption, but an annoying artifact in his study of gastric secretion. Further, he only turned to studying this phenomenon in 1902 following an even more annoying demonstration by Bayliss and Starling that he and his laboratory had been thoroughly wrong in their theory of pancreatic function—the discovery of secretin showing that the pancreas was not wholly controlled by neural activity. Finally, he was very doubtful indeed about his "basic philosophic assumption" during the first years of the conditioned reflex work, until gradually the accumulation of experimental successes reassured him (see B. P. Babkin, *Pavlov*, Univer. Chicago Press, 1949, pp. 86 and 228–231). As to the idea that Pavlov's ideas were "subjected to the closest scrutiny," with the implication that the theory was based solely on logical inference from the facts, consider Pavlov's answer to the factual criticisms of Lashley (*Psychol. Rev.*, 1932, **39**, 91–127). Awkward facts he disregarded, as the rest of us do.

The seminar did not deny that the formal paraphernalia of science are of value. That would be silly. It did deny that they tell the whole story; intuitive conclusions and illogical processes have their part too, and may have the decisive part in many cases (but again, not all). Look at Cervin's examples again. How did the Curies choose that particular discrepancy in physical theory to invest a couple of years of arduous work in? How did Einstein arrive at the particular line of thought he did, in the absence of data which—for others—were needed to show that it was the right one? It was years before the theory of relativity was solidly established; furthermore, it still has the awkward property of being close to inconsistent with quantum theory—also well established.

Cerwin sums up: the "intellectual paraphernalia" help in creative thinking. No one in the Estes Park seminar would disagree. But is this what makes the difference between significant and insignificant research, the main thing that needs to be communicated to the prospective researcher?

D. O. Hebb
McGill University

Psychology in Action

A BRIEF APPRAISAL OF THE ROLE OF CLINICAL PSYCHOLOGY IN MEDICAL EDUCATION[1]

NORMAN S. GREENFIELD

University of Wisconsin Medical School

IT may fairly be stated that Psychology is at last wearing long pants in the medical school setting. True, some of us are still self-consciously preoccupied with the concern about revealing the knobby knees of our adolescences, but slowly and surely we are beginning to accept the fact that we belong, that we have a real contribution to make, and that we have some idea of the directions we wish to take. Almost 90% of the medical schools in this country have psychologists on their professional staffs, and there are approximately four hundred psychologists doing these jobs (Matarazzo & Daniel, 1957).

The acceptance of the "Medical Educator" self-concept has not come easily for most psychologists engaged in this work. In a very real sense the development of the individual psychologist in the medical school has recapitulated the evolution of the species *clinical psychologist*. Many of us began our careers in medical schools as mental testers, and sometimes mental testing was rather narrowly defined. Gradually, as we were able to demonstrate our talents and competence, our responsibilities grew, our contributions became more substantial, our status became enhanced, and we began to experience a sense of identity. We are now just over the threshold in the development of the sense of professional identity in Medical Education.

Some of our problems of status among our medical colleagues have yet to be resolved. Some of our insecurities have yet to be worked through. Most staff members of medical schools, be they basic scientists or clinicians, feel comfortable in wearing one hat. The clinical psychologist sometimes confuses himself as he confounds others by wearing many. With few exceptions the clinical psychologist is the only PhD on the medical school faculty who is directly and actively engaged in clinical work. To some he appears to be encroaching upon traditional medical functions, to others he is compromising his scholarly and scientific background; and even more sadly, the so-called "Medical Psychologist"—the clinician-educator-researcher in the medical school—is too often seen by his more traditional academic colleagues as occupying a somewhat ambiguous role in a no-man's land between medicine and psychology. The professional self-concept of the so-called medical psychologist is understandably a pretty unstable affair, in terms of his ambiguous roles.

Our maturity imposes some obligation for critical self-examination. Let us not delude ourselves that the rapid growth of psychology in medical education is wholly the result of the irresistible attraction which our pearls of wisdom offered. Impressive as our potential contribution may have been to us and to others, the most significant factor in the acceptance of psychology in medical schools has been the fertile soil provided by a *zeitgeist* in medical education. Our status in this setting has been highly correlated with the growth of recognition among medical educators in all fields that the teaching and practice of medicine must transcend the narrow definitions of organisms and organ systems and that the student physician must learn to view the larger picture of disease processes taking place in people who are subjected to many different kinds of internal and external stresses. It is this belief in the concordant relationships among disease processes and man and his environment which has resulted in the shift in focus of the physician to the so-called "whole man" or, more recently, the emphasis on what has come to be called "comprehensive medicine."

The enthusiasm for this point of view among medical educators was more than gratifying. Although many of the most verbal adherents were not quite sure what the "whole patient" really was, it became clear that the progressive medical educator had to salute him. Inevitably new interest in behavioral science arose, and the psychologist became a renewed object of attention.

We, of course, did little to blunt this enthusiasm. In some measure every clinical psychologist is a salesman of his profession, and this has been especially true in medical schools. We had faith in our product, and within the bounds of propriety we were not bashful about plugging it. However, one difficulty was a sense

[1] This paper was presented at the APA Annual Meeting in 1959 as part of a symposium devoted to "A Current Appraisal of Relations between Clinical Psychology and Medicine: Some Points of View."

of indecision regarding the true nature of our product. We felt sincerely that we had a worthwhile contribution to make; but, when called upon to define in more operational terms the unique character of the psychological contribution, we met with tougher sledding. It was only natural and perfectly in keeping with our search for professional identity that we fell back upon the traditional medical paradigm, and many of us began to talk about psychology as a basic medical science along with anatomy, physiology, pharmacology, and so forth. With regard to psychiatry specifically many of us felt and still feel that this empirical art needs more of the rational approach which we feel psychology has to offer. We wrote many promissory notes; and now, with our coming of age, we have to do something about delivering the goods. The proposition that psychology is the basic science of psychiatry is more a statement of faith than of fact, more a future hope than a present reality.

Can we really claim that, since most of us believe psychopathology arises as a function of learning in the interpersonal context, we should therefore require that our future doctors be exposed to our learning theory battlefields? Can we distill enough behavioral laws from our studies of perception and motivation to enable the student physician to treat his patients more adequately? Are the psychological theories of personality really more valid, more applicable to the work of the doctor, than those formulated by our psychiatric colleagues? Do our sharpest tools really contribute that much more to the care of the patient? Certainly, when it comes to the physician's primary responsibility —that of caring for sick people—there is very little that psychology has that he can use directly. If these ideas ring too sharp a note of pragmatism, let us remember that medicine is first and foremost a pragmatic discipline.

There is a need to look beneath the slogans of "comprehensive medicine." It would seem that our present contribution is not primarily in terms of the answers we can provide to meet existing needs but rather in terms of the questions we are able to ask and, just as important, the manner in which we can formulate those questions. Our tools, our skills, the very interests which motivated us to enter a scientific field of inquiry, all may be directed toward tougher minded scrutiny of the tender minded stuff which constitutes traditional medical practice, both in and out of psychiatry.

Well-trained clinical psychologists should and will continue to practice their art. But in this role we offer no unique contribution; as a group there is certainly no evidence to suggest that psychologist-practitioners are any better or any worse than colleagues in the so-called mental health professions. Apart from a few specialized courses there is impressively little in the academic curriculum of psychology which provides much of an edge with regard to helping people. Chi square never cured a patient, and the significant patient-therapist relationships are not really revealed by analysis of variance techniques. It is only insofar as the clinical psychologist retains his identity as a psychologist that his contribution will be meaningful while his unique role is preserved.

Psychology has become a vast and complicated area of inquiry, and the day of the "compleat psychologist" has vanished. Specialization within psychology has grown, and the barriers separating its different branches have rapidly solidified. Perhaps it is true that this is the inevitable consequence of rapid growth and increased complexity, but few who take pride in thinking of themselves as psychologists would disagree that it has cost us a great deal. One of the more recent evidences of this fragmentation is the growth of what has come to be called "Medical Psychology," which is apparently that special brand of clinical psychology which is practiced in medical schools and university hospitals. I am not sure what significance this development has. I hope that it does not mean that in considering the influence of psychology on medical education we are losing sight of which is the dependent and which the independent variable. If we have any unique contribution with regard to the role of psychology in medicine, it is doubtful that it is going to come from a more highly refined subspeciality regardless of what it is called.

There are few interprofessional relationships which are more cordial and mutually profitable than those which exist in medical schools. It is rather a paradox that at the very foundation of medicine there can be profitable and harmonious relationships while so much bitterness and misunderstanding exists in other kinds of settings. But it is fortunate that a new generation of physicians is entering the practice of medicine after gaining a firsthand knowledge of what psychology has to offer.

Psychology has little tradition in medical education. This is a source of weakness, but even more so it is a source of real strength. We are facing a great scientific challenge, and the whole issue of relations between clinical psychology and medicine will be significantly determined by the manner in which we respond to that challenge.

REFERENCE

MATARAZZO, J. D., & DANIEL, R. S. Psychologists in medical schools. In I. J. Knopf (Ed.), "Psychology in medical education." *Neuropsychiatry*, 1957, **4**, No. 3.

TRAINING FACILITIES OF THE C. G. JUNG INSTITUTE, ZURICH

EDWARD W. ARLUCK

City College, New York

THE writer took sabbatical leave for the year 1957–58 in order to study and train at the C. G. Jung Institute. Since his return to the States, he has been bombarded with inquiries from fellow psychologists and students about training facilities offered by the Jung Institute.

For more than forty years, prior to 1948, students and patients journeyed to Switzerland to work privately with C. G. Jung. Medical and lay-analysts whom he trained would frequently return to Switzerland to participate in Seminars which he gave over a period of many years. These unpublished, unedited Seminar notes have constituted the matrix for many of his published books.

Until a decade ago, no formal training Institute for Analytical Psychology existed, and those who wished to train had to work with a Jungian analyst, who eventually conferred upon his successful and appreciative trainees the recognition of being qualified to function in the role of Jungian analyst.

Through the concerted efforts of professional individuals and psychological groups, the C. G. Jung Institute was founded on April 24, 1948, under the aegis of the Board of Education of the Cantonal Government of Zurich with Jung as its President.

The purpose of the institute was to serve as a coordinating center for study, training, and research in Analytical Psychology.

The institute is officially administered by its President and the Curatorium, whose members have long been closely associated with Jung.

The faculty consists of most of the members of the Curatorium as well as other qualified Analytical psychologists. In addition, mature European and American scholars from diverse fields (ethology, anthropology, theology, Egyptology, Chinese and Hindu philosophy, etc.) are regularly invited as guest lecturers, so that there is a significant interdisciplinary atmosphere at the institute.

ADMISSION REQUIREMENTS

For admission as Training Candidate (*Ausbildungskandidat*), the student must complete a rather short questionnaire and submit a curriculum vitae in addition to two letters of reference. He need not have completed his studies for the advanced degrees (MA, MS, PhD, or MD) as yet, but must be at least 24 years old.

During his first semester, the student will be classified as an Auditor. He will not be given the status of *Ausbildungskandidat* until the second semester, at which time he must submit a written recommendation from the Jungian analyst with whom he has been working in Zurich.

PROGRAM OF STUDY AND TRAINING

In conformity with the Swiss universities, the institute's academic year consists of a summer semester of 10 weeks and a winter semester of 12 weeks.

Courses and seminars are presented both in German and in English, with occasional instruction in French or Italian. For, a given semester, some of the English courses are similar in content to the German courses. However, there are German courses covering material which may not be duplicated simultaneously in English courses.

Courses presented over the last ten years lend themselves to the following classification:

General Psychopathology
Basic Principles of Analytical Psychology
Comparative Myths
Comparative Religions
Miscellaneous
- Apuleius' Golden Ass
- Introduction to the Symbolism of Alchemy
- Fairy Tales
- Greek Philosophy and Its Psychological Aspects
- Psychology of Primitive Peoples
- Moby Dick
- Animus Figures in Literature
- Disturbances in Psychic Behavior in Animals
- Incubation in Modern Psychotherapy
- Symbolism of Animals

Training candidates for the *Propadeuticum* are required to make, for at least three semesters, clinical visits to different psychiatric hospitals at which patients are presented. This is to provide firsthand experience with the various types of clinical syndromes. As of 1958, the three hospitals which cooperated with this program were: Kantonale Heil-und Pflegeanstalt (Wil), Nervenheilanstalt Schlössli (Oetwil), Sanatorium Hohenegg (Meilen).

The training program consists of two phases:

Phase I. Theoretical Training

This constitutes at least the first three semesters of study and training. Students have as their immediate objective preparation for the *Propadeuticum* in which they will be orally examined by a specific faculty member for each of the following eight subject areas:

Basic Principles of Analytic Psychology
Psychology of Dreams
Theory and Techniques of the Association Experiment
Comparative Theories of Neurosis
General Psychopathology
General History of Religions—The student is expected to be expertly familiar with two or three, one of which must be a contemporary tradition—such as Christianity, Judaism, Islam, or Buddhism—and one an ancient tradition from old Mesopotamia, Egypt, Greece, Rome, etc.
Psychology of Primitive People—Here the emphasis is upon the significance of primitive cultures for the study of the Psychology of the Unconscious.
Psychology of Fairy Tales and Myths

It is the student's responsibility to indicate to the Curatorium when he is ready to take the examination. He is permitted to contact the faculty members who will examine him and to arrange a brief meeting with each one in order to clarify what particular areas the student is expected to stress.

The *Ausbildungskandidat* starts his personal analysis at the same time that he begins his theoretical studies. Averaging two analytic sessions weekly, the analysis must extend for at least three years with a minimum of 12 months transacted in Zurich and the remaining 24 months elsewhere under an accredited training analyst.

It has become customary for the training analysis to involve working with a male and a female analyst and, where indicated, with both simultaneously.

The "control analysis" cannot be undertaken until the student has satisfactorily passed the *Propadeuticum*. He is expected to carry out at least 250 hours of analysis under the supervision of one or more training analysts. The minimum period of control is six months.

Phase II. Practical training

In this phase, he is now referred to as a *Diplomkandidat*. The objective is the acquisition of practical experience and professional skills with which to function effectively as a therapist. This is effected through the training analysis (three years' duration), the control analyses with at least two patients (a minimum of 250 hours each), closed seminars on control-case presentation, and individual research culminating in a "diploma thesis."

The practical training must cover at least three semesters at the institute and culminates in the diploma examination. In addition to the information required for the *Propadeuticum*, an additional feature is the handling of the material from the applied point of view.

The diploma examination involves an oral and a written part:

1. Oral examination.

a. Psychiatry: General familiarity with psychology, psychopathology, and comparative theories of the neuroses is taken for granted. Here the level of competence corresponds approximately to that demanded by the medical licensing examination in Switzerland. Students are not required to demonstrate knowledge of normal and pathological anatomy, neurology, internal medicine, and pharmacology. Yet they are expected to be familiar with the principles underlying the important methods of treatment.

b. Process of individuation and its symbols: A more profound understanding of the symbols of the psychic process of development is now required. The special emphasis is on application in the analytic treatment, of the symbolism of the Self, and the process of individuation, with its parallels.

2. Written examination. The student is given four hours in which to write a paper on one of the three subjects:

a. Interpretation of dreams: The application of theoretical knowledge in the individual case is required. The student must demonstrate ability to interpret a dream from all its diverse aspects, including the case history and psychological situation of the dreamer. He is not only expected to interpret a series of dreams according to the Jungian frame of reference but also to demonstrate how the dreams may be seen from the Freudian and Adlerian approaches.

b. Interpretation of pictures from the unconscious: These drawings are produced by patients at varying stages of analysis, sometimes spontaneously produced, or derived from a dream stimulus or from a suggestion by the therapist that the patient attempt to capture and concretize a mood or subjective state. Here the student must show competence in pointing up the significance of such drawings and demonstrating their relatedness to dreams.

c. Interpretation of a fairy tale or a myth: The fairy tales and myths are to be approached systematically and interpreted like dream material. The trainee is expected to show familiarity with such leading fairy tale motifs as child heroes, brother-sister pairs, main royal figures, Tom Thumb, etc. He must exhibit ability to perceive archetypal motifs, to associate them with correlative material, and to highlight their interrelationships so that the hidden content is made as manifestly clear as in the interpretation of unconscious material from an individual case. A broad knowledge of comparative mythology is expected, with the student demonstrating comprehension of such universal mythological motifs as divine child, symbolism of rebirth, mother goddesses, hero myths, flood legends, etc by developing their psychological meanings and illustrating with concrete examples.

In addition to the oral and written requirements, the candidate must also demonstrate the actual handling of an individual case. Given the necessary data about the patient, he is to indicate how he would work with the patient, what his conduct would be in the first interview, how he would take the anamnesis, how he would handle the financial arrangements, what problems of transference might arise and their resolution, how he would act in the sessions, and finally, how he would handle the terminal aspects of the analysis.

At this time, the candidate must also submit a written

TABLE 1

DISTRIBUTION OF STUDENTS: 1949–1957

	Total No.	Swiss	American	English	German	Others
Summer Semester 1949	113 (23)[a]	64 (5)	30 (9)	11 (6)	2	6
Winter Semester 1949–1950	80 (16)	59 (5)	6 (5)	2 (2)	1	12
Summer Semester 1950	139 (18)	105 (6)	23 (8)	5 (2)	1	5
Winter Semester 1950–1951	116 (22)	72	27	4	4	9
Summer Semester 1951	124	98	19	4	0	3
Winter Semester 1951–1952	114	75	25	2	2	10
Summer Semester 1952	136	63	41	9	4	19
Winter Semester 1952–1953	147	90	32	8	4	13
Summer Semester 1953	116	52	37	6	9	12
Winter Semester 1953–1954	152	102	24	9	9	8
Summer Semester 1954	107	48	36	5	7	11
Winter Semester 1954–1955	152	93	33	7	6	13
Summer Semester 1955	160	78	50	15	6	11
Winter Semester 1955–1956	155	83	31	10	13	18
Summer Semester 1956	157 (25)[b]	96	36	7	8	10
Winter Semester 1956–1957	146 (29)[c]	79	35	15	7	10

[a] Numbers in parentheses refer to regular (*ordentliche*) students.
[b] 13 training candidates for *Propadeuticum*; 12 diploma candidates.
[c] 17 training candidates for *Propadeuticum*; 12 diploma candidates.

report on the control analyses which he has carried on.

The requirements for the diploma thesis are that it be an original scientific research project, that it be a practical contribution to analytical psychology, and that it demonstrate the application of Analytic Psychology to other fields of learning. The student must consult with his training analyst on the choice of topic and research plans and is expected to report regularly. The caliber of research demanded corresponds to that of graduate work in European universities. At the time of the diploma the student must defend his research project.

If he has successfully passed his diploma examination, the candidate will be awarded the diploma provided that:

He is at least 28 years old.

He is considered morally and professionally fit.

He has already acquired the necessary academic degree (MD, PhD, MA or MS or Licentiate).

He has completed six semesters of studies at the institute.

He has had his diploma thesis, based on research, accepted.

He has finished his three years of personal training analysis and 250 hours of control analysis.

He has paid the requisite fee of 250 Swiss francs for taking the diploma examination.

STUDENT BODY [1]

Students come from over 29 different countries and every continent, though the majority are from Switzerland, the United States, England, and West Germany (see Table 1).

They range in age from the early twenties to the middle fifties and include medical doctors, psychiatrists, clinical psychologists, social workers, philologists, educators, clergy, artists, etc.

From the summer semester of 1951 to the winter semester of 1956–1957, about 40 students passed the *Propadeuticum,* and over 10 diploma candidates passed successfully the diploma examination.

LIBRARY FACILITIES

The writer would comment on the unpublished, unedited Seminars of C. G. Jung which were given over a period of some twenty years. Permission to read them is required from one's analyst, and, needless to say, the content of these Seminars has not been generally made available. Students are not permitted to copy nor quote directly without permission from Jung.

These Seminars have served as a primary source for books subsequently written and published by Jung. It is the writer's impression that the real dynamic of Jung's psychological thinking and original contributions is still to be found in the unedited Seminars.

In the early Seminars on Analytical Psychology, given by Jung in 1925, there is a frank description of his early relationship with Freud, the effect of the split between them, and the resultant isolation which Jung experienced. He describes how, challenged and confronted by this isolation, he hit upon a method for working with his own dream material. A systematic sequential presentation follows of the psychological constructs evolved by him to account for the clinical facts observed.

In the many volumed Seminars on Visions, extending from 1930 to 1933, involving thousands of pages and hundreds of hours of exciting reading, one can more than glimpse the "Faustian intellect" at work (see Henry Murray's, 1940, description of his own personal encounter with Jung in 1925).

The Seminars on Nietsche's *Zarathustra* (some nine volumes), on Dream Interpretation, on the Developments of Modern Psychology, on the Individual Process

[1] The writer wishes to express his gratitude to Franz Riklin, President of the Jung Institute, for making available to him the data on distribution and registration of students.

and Its Symbols are brilliant, profound, provocative, and anticipatory of subsequent developments, especially in the field of psychosomatic medicine. The writer is convinced that many American psychologists are not aware of the fact that Jung is expertly familiar with the developments of experimental psychology and with much of the as yet untranslated German material. In his presentation of historical origins of modern psychopathology, Jung cites German sources and contributions which the writer had never encountered in comparable English sources for the same period.

In response to the recurrent criticism of Jung's pro-Nazi stand, the Seminars on Visions which were presented during the early formative stages of the development of Nazism, and in which Jung expressed himself frankly on the German situation, left no doubt in the writer's mind of the lack of validity of such an accusation. To accept the fact that Jung could later step in and accept the editorship of a German periodical requires some understanding of the Swiss position of neutrality which one can obtain only when one has lived in Switzerland for a period of time.

The writer was personally informed by Riklin, the President of the Curatorium, of Jung's efforts on behalf of not only many non-Aryan analysts in Germany and Austria but of Freud himself. For the record, let it be said that, when an emissary from Jung arrived in Vienna to expedite Freud's escape, Freud spurned the offer.

In closing, it may be of interest to say something of the expenses which study at the institute entails. Tuition per semester might average $100.00 or less depending upon the number of courses for which one registers. Analytic sessions with a medical psychiatrist are slightly less than $10.00 per session; with a lay analyst, about $8.00 per session. Special funds are available for American students studying at the institute. For example, the writer and his wife have been granted a Bollingen scholarship to return for the summer of 1960 to pursue their professional studies further.

REFERENCE

MURRAY, H. A. What should psychologists do about psychoanalysis? *J. abnorm. soc. Psychol.*, 1940, **35**, 150–175.

FOR DISCRIMINATING SCIENTISTS WHEN IN LONDON (ENGLAND)

WHEN visiting in London, have you ever wished for a temporary membership in a quiet club—one which would provide "a meeting place, a refectory, a library, a bar, and some residential accommodation"?

Members of APA are cordially invited to direct their attention to the impeccably genteel facade of No. 5, Old Burlington Street, London, W.1.

If one stands just opposite this red brick, iron fenced, white marbled residence very long, one may note that it is not inhabited, as one might first suspect, by retired solicitors from John Galsworthy, nor even by the ghosts of governesses from the pages of Barrie or Henry James. The people going in and out of No. 5 have an ineffable air of being contemporary, at the same time that they tend to be rather mature. Many seem oblivious of their surroundings, but they do not seem to be mentally counting money nor thinking of tomorrow's race at Ascot; no, they look rather—yes, definitely—professional.

The *American Psychologist* is in receipt, by post, of communications, complete with photographs, decribing the facilities of the Society for Visiting Scientists —of London, England. Several APA members have visited and enjoyed its hospitality. Its aims are:

1. To be a focus for all scientists visiting the United Kingdom and to put them in touch with British scientists and with one another and make them feel at home in the shortest possible time

2. To promote and encourage an active interchange of scientific thought and discussion between scientists of the United Kingdom and scientists from overseas

The facilities are described thus:

At the House of the society, a lounge and library provide a place for meeting, reading, or writing; and there are in addition a restaurant, a bar, and some residential accommodation.

Honorary officers include, as one of four members of the "Council of Honour," Detlev W. Bronk, of the National Academy of Sciences.

There is no charge for foreign membership in this group. The House is supported by dues of British members and by contributions under "Deeds of Covenant" with industrial firms. Charges for meals and rooms for visiting scientists are modest, and our agents report that, befitting the tradition of a good club, "the food is adequate, the drinks are excellent, and the conversation first-rate."

For reservations one should write to Miss Esther Simpson, Assistant Secretary of the society.

APA members in England are urged to use its facilities for maintenance and for introduction to the British scientific community. Frank Geldard, of the University of Virginia, was a recent visitor and will furnish details; or one may simply indite a holograph to No. 5 Old Burlington and tootle off on one's own.

Psychology in the News

Mental Health: Is It? . . .

As this is written on a hot summer's day, a small flurry of letters indicates there may be a blizzard of correspondence over what will probably be known as "That *Life* Article on Mental Health." The article appeared on August 8, almost 15 years to the day after the atomic bomb on Hiroshima shook up the world's thinking about the inevitability of science leading to progress. The *Life* article was called "Who's Normal? Nobody, But We All Keep on Trying." The subhead was "In Dissent from 'Mental Health' Approach, Experts Decry Futile Search for an Unreal Goal."

The article was written by Ernest Havemann, who won the first popular-psychological writing award from the American Psychological Foundation for a previous series on psychology and psychiatry. This department flatly predicts the National Association for Mental Health will not give him a prize for this one. Havemann agrees with the estimate of the undersigned that members of the mental health professions will be taking this seriously—but not agreeing about it. In fact, there is a hope and fear that this article will prove to be something of a bomb, a great deal smaller than Hiroshima to be sure, but raising some of the same questions about the limitations of science—and the limitations of people.

Further coverage will be given in the *American Psychologist* to Havemann's description of current scepticism about popular education "for mental health," and to the more technical publication on which his theme was based. The latter, henceforth known as "That Cornell Conference Report," was actually called "Mental Health Education: A Critique." It was written by Elaine Cumming, Max Silverstein, and Michael Amrine.

Good-Bad Test News . . .

According to *Business Week* for July 16, some business executives like and some do not like tests. Their headline went like this: SMALL BUT BITTER EXECUTIVE MINORITY STILL SCOWLS ON PSYCHOLOGICAL JOB TESTS. Their first sentence went like this: "Psychological testing, despite criticism and ridicule, meets with objections from only a few executives." The entire article was abstracted from the *Harvard Business Review,* which had polled 1,861 subscribers and found that:

> More than half the executives said their companies were using psychological tests in personnel selection, most often for salaried jobs. Fewer than 10% actively disapproved of the practice—but these had strong feelings on the subject.
>
> One objection to psychological tests was that they breed conformity. Only 15% of the individuals surveyed poohpoohed the idea that conformity was a business problem (nearly two-thirds of the 15% were in top management). **Nearly half of the whole group felt that there was too much conformity in business and that tests did or could contribute to it.**

It could be significant that a fourth of the companies now using tests had tried them in the past.

A Macabre Job—Highly Recommended . . .

Have psychologists in your community written many letters to editors of newspapers about Alfred Hitchcock's motion picture, *Psycho?* They have written here and there over the country, so much so that we wondered if some film flack (ask the nearest anthropologist of Hollywood, say Rosten or Powdermaker) were fanning up an underground movement.

Regardless of that, the following is the most extraordinary letter so far received, and was sent to *Newsday* by Arthur J. Kleps, District School Psychologist, writing from Port Jefferson on Long Island. We print here all the comment which *Newsday* printed from Kleps:

> Long Island parents should be made aware of the fact that this motion picture is not a typical Hitchcock product depending mostly upon suspense and a tricky plot for its entertainment value, but is instead a macabre, clinically explicit, grotesque study of a psychotic personality of the most extreme type, and it is loaded with sadistic violence and sexual associations.
>
> I happened to attend a matinee showing and the theater was crowded with children. In my opinion, the benefit they derived from this experience, if any, could have been achieved equally well by going on a tour of the disturbed wards of a mental institution or by listening to the ravings of an excited paranoid schizophrenic for two hours.
>
> A somewhat disturbed or neurotic child, of which there are many, or even a normal child passing through certain states of emotional development, could, in my opinion, have been seriously upset by viewing this picture. There is a great deal of difference psychologically, between the

evil witch in "Sleeping Beauty" and the nude, blood-drenched body of a real and contemporary person. I mention only the most mild of the horrors portrayed.

It is incredible to me that in a society where such a great hue and cry is often made over "girlie" magazines and other such harmless trivia, a movie of this kind, containing as it does the most vivid portrayal of the most obscenely deviant human behavior imaginable, could go unremarked and be accepted as a suitable afternoon's entertainment for children.

By the way, I highly recommend the picture—for adults.

For epistolary excellence it seems to us this clip deserves an E. In fact it absolutely ties our tongue to think what could possibly eclipse this E-clip of Kleps.

Crime or Comedy, So Long as They Love Psychology! . . .

Edward M. Scott, of the University of Portland, is becoming one of the most thoroughly digested teachers of the day. Some recent ideas of his appeared in *Science Digest* and were then reprinted in *Catholic Digest*. Scott's digestible idea was to give personality tests to students, then ask them about types of motion pictures they preferred, and then compare the two. Certain traits and marked movie preferences did seem to go together. Films were classified as musicals, westerns, historical, crime, comedy, religion, science, or romance.

And the man at the next desk, to whom we like to transfer our hostility, says that APA papers might also be classified under most of these same categories. He merely crosses out the first two, but claims that many psychological papers belong under one of the last six above.

News From Gheel . . .

The famous Belgian town of Gheel, where the mentally ill are accomodated into the community and cared for in private homes, was recently the subject of an article in *Kiwanis Magazine* (March 1960).

Among the fascinating anecdotes was this story about the two lady tourists who

strolled through the cobblestoned streets, staring curiously at every man and woman they met. Finally, one of the women stepped into a small bakery, leaving her companion waiting for her in front of the shop window.

"I understand you let mental patients wander around freely," she said to the proprietor.

The baker smiled patiently. He had met inquisitive tourists before.

"Tell me," the lady went on, "how can one distinguish them?"

"It is very hard for you, Madame," the baker answered, "but Gheel residents can always detect them. Look at that woman standing in front of my window, for example. She is a patient. Notice the angle of her hat and the way her face looks, especially around the mouth and eyes."

His visitor rushed out the door and grabbed her friend by the arm. A few minutes later they drove out of Gheel as if pursued.

The baker stood at his shop door smiling mischievously.

Gheel now has a population of 24,700, and over 10% are patients, most of them classed as "incurable," after having failed to respond to treatment of some sort in public institutions. Conventional facilities of a hospital type are now also provided for a few patients, and the staff includes 8 physicians, 10 psychiatric nurses, 10 Catholic sisters (of St. Norbert), 36 male nurses, and a social worker. A physician and two psychiatric nurses are assigned to each of five districts in the town, and theoretically they regularly check on each patient.

In *Kiwanis Magazine* is another story about the reaction of the "normal" citizens of Gheel.

Not long ago, a Brussels advertising agency launched a study to learn how much money the average Belgian was donating to charity. One pollster stopped at a Gheel farmhouse and was told that the family could not afford to give anything to charity.

"We don't have much," the farmers said, "and we are a large family—five children and two patients."

The interviewer pondered the answer for a moment, then entered "two patients" on his record sheet. He recognized that the Gheel brand of charity takes a rule of measurement all its own.

It all brings to mind the patients in a certain ward of St. Elizabeth's, who watched the political conventions on television and noted much mention of the aged and some mention of the retarded, but not much about the mentally ill. "Well, they may not worry about us," said this perceptive paranoid, as the planned-spontaneous demonstrations unwound, "but we certainly worry about *them*."

—MICHAEL AMRINE

Psychology in the States

I Respectfully Agree to Answer . . .

If there are places where psychology gets played for keeps, the legal stage is no doubt one of them. Elsewhere, psychologists may argue with relative impunity the merits of extracting factors by the centroid, bifactor, or principal components methods, or contest chapter and verse from the bibles of Sullivan, Rogers, and Freud. But the courtroom judge wants to know whether Mr. Jones is or is not of sound mind, and the attorney reminds the expert witness to "Answer 'yes' or 'no'!"

For the xth time, we recently watched a nonpsychologist invoke the Fifth Amendment y times while our conscience turned z somersaults. Constitutional rights? Flouting the law? Safeguards of democracy? Farce? We knew a little about how intellect and emotion fight a running battle within most of us, but even so the legal enterprise seemed a sweaty, melodramatic, tense, tough, tricky business.

Well, there are less timid psychologists who venture in not to watch squeamishly but to testify expertly, and we have heard from three score of them in the past few months. They strike us as a casehardened crew, colleagues who have learned the hard way that courts seek less whim and more wham and that, if cross-examining attorneys are not literally the devil's advocates, they are tough enough to apply for the job. Says one of our respondents in a once burnt, twice shy mood:

> I have had numerous run-ins with the law as a witness. None has been remotely pleasant; all have been disagreeable and of a nature to be avoided. I now never go to court unless served with a subpoena.

He is joined by another, apparently equally disillusioned with the enterprise, who takes a pretty jaundiced view of any aspect one can name. About preparation required, he feels: "Useless—you can't prepare for it!" Benefits to be derived from testifying? None, says he. While he frankly does not expect the court to qualify psychologists as expert witnesses, he hides behind no amendments in telling us that psychologists need to "try to take the legal profession beyond the Middle Ages level concerning 'data,' 'fact,' etc."

There are some with brighter views though. For them, the courtroom, like spinach, is not pleasant —but good! One of these healthy folks who feels elevated by the "opportunity to contribute to the workings of the machinery of justice" puts it this way:

> For the psychologist himself, the courtroom can be a tremendous learning experience. There are stricter rules for admitting evidence in court than there are at scientific meetings or in journal policies. I think it is very useful for a psychologist to begin to think about the concept of "admittable evidence."

So do we, as we turn now to look at some of the other things we have learned from the corps of forensic psychologists who have so kindly helped us pretest a questionnaire which, properly revised, will be used in a sampling survey of the APA membership.

* * *

Psychology and the Law. That seems to be the subtitle of a committee of the Oregon Psychological Association under the chairmanship of Joseph D. Matarazzo. The group moves fast. Organized in November of 1959, it managed to have two of its members and President John L. Wallen appear in January 1960 before the Interim Committee of the Oregon State Legislature on Revision of the Criminal Code. Chips were down as the OPA representatives confronted four basic questions put to them by the public servants. The legislators sought answers to such straightforward problems as: psychology's attitude toward the McNaghten rule; the study, classification, and treatment of prisoners; the advisability of presentence investigations as aids to judges; the role of psychology in determining whether or not a person is mentally ill.

The OPA group did a right creditable job. They made no pretense of speaking for all of psychology, nor even for all of the OPA on points where no clearly formulated positions are available. On the other hand, they showed no hesitation in voicing their own good and reasoned views on the several issues; and, where psychological research had produced relevant findings, they pointed these up for the legislators, who showed both understanding and appreciation. Good as the presentation was, its by-products may have been even better: the

occasion presented a ready-made opportunity for updating some key people on roles and functions of Psychologists of the Sixties.

Purkinje Effect and All. Two swallows may not make a summer, but Robert Sommer swallowed hard a couple of times as he superbly digested for skeptical attorneys (and even the judge) the implications of psychological research on perception. His courtroom christening is described in the October 1959 issue of the *Canadian Psychologist* under the double-entendrish title of "The New Look on the Witness Stand." Supposedly, it harks back to the "New Look" articles of several years ago when need-influenced perception became the order of the day. We prefer to regard the title as signifying the appearance in court of the experimental and social psychologist alongside their much more numerous clinical confreres.

Testifying at the trial of a hunter charged with negligence in the shooting of a "deer" who turned out to be a fellow-hunter, Sommer's task was, as he saw it, "to supply the court with expert testimony on perceiving in ambiguous situations, especially as to the influence of needs and expectations on perception." Hurdles abounded. There were questions of semantics in "I saw a 'deer'" as compared with "I thought I saw a deer." There was the judge who wondered whether some of the conclusions drawn from experiments were not "obvious" even without experimentation. There was the (if we may) compulsive court clerk, flabbergasted at the introduction of slides, since he had no system for their labeling if put in evidence. Perhaps most frustrating of all was the fact that Sommer was able to introduce as evidence only research he himself had conducted.

Yet, for a' that, our colleague handled himself most competently, translating technical information into the language of everyman, leaving the court quite receptive to psychologists' research efforts, and even earning his rightful title of "Doctor," one occasionally denied psychological experts by attorneys intent on granting a minimum of prestige. Insightfully, he remarks: "In a situation in which people were 'my learned colleague' and 'your lordship,' it was very helpful to have a title of my own."

Issues Unlimited. Filling out the questionnaire in our survey, social psychologist Sommer conjectures: "I foresee the greatest difficulty for clinical and school psychologists, the next greatest for social psychologists, and the least difficulty for experimental psychologists."

Our returns to date are, indeed, heavily committed to the clinical. With determination of sanity a leading issue, the problems on which the psychologist is called to testify as expert witness run the gamut from mental level, degree of organic brain damage, amnesia, and delinquent behavior to exhibitionism, homosexuality, sequelae of divorce, and criteria for admission of Hawaiian children to foreign language study. Where testimony is before legislative tribunals or formal commissions, the psychologist as expert witness is no less importuned, being asked to speak on everything from education and mental health to pornography and subliminal perception.

The court actions themselves are uncomfortably reminiscent of the Alfred Hitchcock school—murder, arson, larceny, rape, felonious assault, child custody, criminal negligence, forgery, commitment, and parole, to name the grimmest. In the present state of our knowledge of human behavior, not to mention our lack of sophistication about the world of law, it is small wonder that so many of the respondents hint at nightmares involving the witness-baiting, wily, cool and calculating, cross-examining attorney who may have read last month's *Journal of Consulting Psychology* while we have not.

Where Angels Fear to Tread. This set of respondents, chosen precisely because of their experience with the legal obstacle course, makes much of the need for careful preparation. Says Fabian L. Rouke, from the home grounds of the Manhattan College Group for Forensic Psychology:

> Any psychologist who is to appear on the witness stand should be exceptionally well prepared to answer questions on his own background qualifications, the development and validation of any measuring instruments that he has used, and any other psychological information which is pertinent to the particular case at hand.

Speaking of some of the additional anxieties the budding witness may be heir to, he adds:

> He should also be prepared to withstand rigorous cross-examination and should be briefed on some of the techniques of irritation and confusion commonly used by cross-examiners. It may be difficult for many psychologists to accept the almost complete reversal of role that

an attorney undertakes when he becomes the adversary in court.

We lesser men, who blanch visibly when looked at reprovingly by a traffic cop, find all of this somewhat enervating. But we are told the whole of it has its blessings and that we might well count them. There is, for one, an element of self-discipline in getting to know more about one's instruments (their normative data, reliability, and the rest); likewise, it behooves the psychologist to become a bit more parsimonious in his use of constructs and a bit less expansive in his interpretations. As one respondent enjoins: "Stick to facts and avoid speculation unless asked"; in like manner, another urges the presentation of "tight, simple points with evidence."

Values Without and Within. While psychologists have been pressed into legal service more or less since the early days of Münsterberg, it was less then, is definitely more now, and may eventually be most. One of our respondents averages 25 court appearances per year while furnishing the court with 50–100 written reports to boot. Another tells us that a psychologist is required to appear at every probate hearing involving commitment to an institution for the mentally retarded, adding that the court seems to prefer objective psychological data to the more impressionistic psychiatric opinion in such cases.

Good or bad? One would expect psychologists to be divided on the merits of the increasing participation in legal activities. They are. While some doubt the wisdom of making pronouncements at a time when, for example, "psychosis" is so poorly defined and its relation to "sanity" so nebulous, and others dread seeing psychologists testify on opposite sides of an issue, the group as a whole decidedly favors our involvement. One experienced expert witness sees it as bringing "increasing respect to the profession and a good measure of satisfaction to the individual," while another welcomes the "chance to fulfill our responsibility to the community."

Would it not be interesting if one of the psychologists were at the same time an attorney, the better to see the situation stereoscopically, as it were. As it turns out, at least one is, and Bertram Pollens sounds an appropriate note of caution: "I believe we are going to have a great opportunity to function in this new role, but I am afraid that we are woefully unprepared for the dangers inherent in it."

The issues on which psychologists may be asked to testify as expert witnesses will not always be of the purest, Pollens reminds us, especially as psychological opinion comes to have ever greater prestige. When this happens, he says: "The chances are that psychologists are going to be called upon more and more in situations where ethical and moral issues are involved and where questions of public policy are at stake."

Where, then, are we left? Perhaps, as Mary H. Tatom suggests, with the necessity for "providing some kind of recognition or emphasis which would encourage psychologists to think of legal psychology as a special area of competence involving more than knowledge of psychology per se."

* * *

We Rest Our Case—Temporarily. We have only blown a bit of the foam off the top of this legal lager. The first draft of our questionnaire asked for much more; and, indeed, our respondents told us much more—about the basis of their testimony, its mode of presentation, how it was received, what kind of publicity it got, whether the verdict was favorable, how much preparation was involved, what the moral of the story is for APA. All of the information is useful; much of it will enter directly into a revision of the present questionnaire, after which the sampling survey of the APA membership will be undertaken.

Meanwhile, psychologists prone to get defensive about and impatient with what seems a conservative, cultural-laggish attitude on the part of the judicial juggernaut may want to sober up on the words of one of the legal "good guys," David W. Louisell, who in *The Psychologist in Today's Legal World* reminds us:

> Perhaps few things are so shocking to the conscience of a liberty-loving people, and therefore inimicable to the progressive application of sound scientific principles in the regulation of society, as the serious curtailment of human liberty by applying "scientific" conclusions unsupported by the underlying data . . . .

—M. CURTIS LANGHORNE
Chairman
Board of Professional Affairs

ERASMUS L. HOCH
Administrative Officer
State and Professional Affairs

Notes and News

A **Major Medical Insurance Plan** is to be made available to APA Members, Associates, and Fellows in good standing. This coverage has been designed by the Association Underwriters of America, Inc. (administrators of association group insurance plans) in conjunction with the APA Committee on Insurance. The plan will cover major medical and surgical expense, both in the hospital and at home, for members and their dependents—in contrast to hospitalization and/or surgical insurance policies which have a more limited, short-term coverage. Further details will be mailed to the membership during September.

Edna D. Baxter, of the Baxter Foundation for Research in Education, died in July 1959.

J. Edward Caster, of Scripps College, died in March 1960.

Florence B. Shatter, of Great Neck, New York, died in 1960.

Verner M. Sims, of the University of Alabama, died on May 18, 1960.

Paul W. Terry, of the University of Alabama, died in 1960.

Aline Kidd, Albert Maslow, and **Frederika B. Peterson** have joined the clinical psychological staff of the Agnews State Hospital, California Department of Mental Hygiene, San Jose, California.

Abram Amsel and **George Mandler** have been appointed Associate Professors of Psychology at the University of Toronto.

William P. Angers, formerly at Fordham University, has been appointed to the staff of the Counseling Center at Newark College of Engineering.

Henry A. Imus has become Assistant Director of Research at the United States Naval School of Aviation Medicine, Pensacola, Florida. **J. Roger Berkshire** has been appointed Assistant Head of the Department of Psychology at the school.

Eli M. Bower, formerly with the California State Department of Education, has been appointed Deputy Director, Liaison and Prevention for the California State Department of Mental Hygiene.

Christine Budnoff and **Saul C. Kupferman,** of the Jewish Vocational Service, Los Angeles, are participating in that agency's joint vocational rehabilitation program at the Ben R. Meyers Rehabilitation Center of the Cedars of Lebanon Hospital.

W. L. Cash, Jr., of Prairie View A & M College, has accepted an appointment as Visiting Professor of Psychology at the University of North Dakota for the 1960–61 academic year; he has also been appointed to the staff of the Human Relations Workshop at the University of Michigan for the Summer Session.

Randolph Cautley, formerly at Columbus State Hospital, and **Edwin R. Harris,** of Purdue University, have joined the staff of the Psychology Department at Mendota State Hospital, Madison, Wisconsin.

Alphonse Chapanis has a year's leave-of-absence from Johns Hopkins University which he will spend as psychologist on the staff of the Office of Naval Research Branch Office in London (Keysign House, 429 Oxford Street; London W.1, England).

William, Lynde, and Williams announces the election of **Tolan L. Chappell** as a partner to serve its clientele on the West Coast.

The following changes have occurred in the staff at the College of the Pacific:

Wallace T. Wait retired as of June 30 from the position of Chairman and Professor of Psychology.

Ronald E. Johnson has resigned to take a position at Auburn State University.

Perry J. Rockwell resigned to take a position at the University of Indiana.

Jay W. Reeve, of the Stanislaus County Schools, joins the staff as Associate Professor of Education for Counseling and Guidance.

Elizabeth Beard Mason joins the staff as part-time Instructor in Psychology.

Laurence S. McLeod, formerly at the University of Tulsa, has accepted a year's appointment as Professor of Psychology.

Wilfred M. Mitchell, Professor of Psychology, returns after a year's sabbatical.

Emory L. Cowen has been appointed Assistant Chairman of the Department of Psychology and Director of Clinical Training at the University of Rochester.

Ronald Deiss, formerly with Ramo-Wooldridge, has accepted a position as Senior Engineer on the Human Factors staff at the Martin Company in Orlando, Florida.

Ralph E. Dunham, formerly in the United States Naval Personnel Research Field Activity, is now Chief, Test and Measurement Unit, Management Training and Training Development Branch, Training Division, Federal Aviation Agency.

Jack W. Dunlap, of Dunlap and Associates, Inc., received an honorary Doctor of Laws degree from Kansas State University at the recent commencement exercises.

Lois L. Elliott recently joined the School of Aviation Medicine at Brooks Air Force Base, Texas, as a member of the Ear, Nose, and Throat Branch.

Recent additions to the staff of the Personnel Measurement Research Department of the United States Naval Personnel Research Field Activity, Washington, are **William H. Enneis** and **William P. Lane.**

Joshua A. Fishman, formerly at the University of Pennsylvania, has accepted a new position as Professor of Psychology and Dean of the Graduate School of Education at Yeshiva University.

Frank A. Geldard has been named Dean of the Graduate School of Arts and Sciences at the University of Virginia.

Paul R. Givens, formerly at Birmingham Southern College, has accepted the position of Associate Professor of Psychology at the University of South Florida, Tampa.

Lew Goldberg, formerly at Stanford University, has joined the staff of the Department of Psychology at the University of Oregon as a clinical psychologist.

Merrill T. Hollinshead, of the New Jersey Public Schools, has been appointed Professor of Education in the Department of Educational Psychology, School of Education, New York University.

James Joyce, formerly at Coe College, has accepted a position at Western Illinois University in order to develop a Department of Psychology in the School of Liberal Arts.

Carl J. Lange has become Director of Research, United States Army Infantry Human Research Unit (HumRRO), Fort Benning, Georgia.

James F. Magary, formerly with the Devereux Foundation, has been appointed Assistant Professor of Guidance and Educational Psychology at the University of Southern California.

Joseph B. Margolin, now completing a year's assignment as Coordinator of Conference Studies for the White House Conference on Children and Youth, is returning to his duties at the National Institute of Mental Health. He has also been appointed Chairman of the Maryland State Board of Examiners of Psychologists.

Norman M. Molesko, formerly associated with the Stromberg-Carlson Company, has accepted a position with Convair Astronautics as a Reliability Human Engineer.

Wilson Newman has become a member of the staff of the Personnel Laboratory in Chicago.

Jesse Orlansky, of Dunlap and Associates, Inc., has been granted a year's leave of absence to serve the Institute for Defense Analyses in Washington, D. C.

Robert S. Ort is now at Western Reserve Medical School and has also been appointed Medical Director for the Meatcutters and Retail Clerks Medical Programs of Cleveland, Ohio.

P. H. Prabhu has been appointed to the International Council of Group Psychotherapy; he has also been appointed the Consulting Editor for the International Section of *Group Psychotherapy* and

the *International Journal of Sociometry and Sociatry.*

Erich Prien is now Assistant Director, Psychological Research Services, Western Reserve University, and Assistant Clinical Professor, Department of Psychology, Western Reserve University.

Herbert Righthand, formerly at the J. M. Wright Technical School, has become Director of the Norwich Regional Technical School, Connecticut.

George Soloyanis, formerly with the Pennsylvania Department of Public Welfare, is now Consultant in Clinical Psychology, Bureau of Mental Health, District of Columbia Department of Public Health; **Margaret M. W. Royce** has joined the staff of the Legal Psychiatric Services Division.

Willis C. Schaefer has been appointed the representative of the System Development Corporation in Washington, D. C.

Henry A. Singer, of Remington Rand, has been appointed Managing Editor of *Advanced Management,* the monthly publication of the Society for the Advancement of Management.

Bernard Somers resigned from the Institute for Crippled and Disabled to join the staff of the Rehabilitation Counseling Program at Los Angeles State College.

E. Lynn Waldrip has been appointed to the staff of the Department of Psychology at Hastings State Hospital, Hastings, Minnesota.

Heinz Werner has retired from the chairmanship of the Department of Psychology at Clark University and is now Chairman of the Board of Directors of the Institute of Human Development at Clark University. **Seymour Wapner** has been appointed Chairman of the Department of Psychology.

Bert A. Weinblatt, formerly at Bellevue Hospital, has been appointed Senior Staff Psychologist at St. Vincent's Hospital, New York City.

Frederick Herzberg has been appointed Chairman of the Department of Psychology at Western Reserve University. **Robert C. Wilcott** and **William A. Alexander** have accepted positions as Assistant Professors of Psychology at Western Reserve University.

Gertrude J. Williams has accepted an appointment as Director of Research of the St. Louis Psychiatric Child Guidance Section of the Health Division.

James E. Woods, formerly at the University of Illinois, has been appointed Chief Psychologist at the Medical Center Rehabilitation Unit, University of North Dakota.

Earl T. Zwetschke has left Colorado State College to accept an appointment as Director of Counseling for the Oakland (California) Secondary Schools.

The following roster of officers has been announced:

Fairfield County Society for Clinical Psychology
President: Stanley Rosner
Vice-President: Peter Paul Barbara
Secretary-Treasurer: Leah Gold Fein

The **Educational Testing Service** is offering for 1961–62 its fourteenth series of research fellowships in psychometrics leading to the PhD degree at Princeton University. Open to men who are acceptable to the Graduate School of the University, the two fellowships each carry a stipend of $3,750 a year and are normally renewable. Fellows will be engaged in part-time research in the general area of psychological measurement at the offices of the Educational Testing Service and will, in addition, carry a normal program of studies in the Graduate School. The closing date for completing applications is January 6, 1961. Information and application blanks may be obtained from: Director of Psychometric Fellowship Program, Educational Testing Service; 20 Nassau Street; Princeton, New Jersey.

The **James McKeen Cattell Fund** invites requests for grants-in-aid in the field of applied psychology. Applications should be filed by January 15, 1961. Procedural and other relevant information may be obtained by writing to: Elsie O. Bregman, Secretary-Treasurer; 425 Riverside Drive–11C; New York 25, New York.

The **National Association for Mental Health** (10 Columbus Circle; New York 19, New York) has established the Research Foundation of the NAMH to conduct its research activities. The foundation will allocate grants for projects and programs concerned with the causes, prevention, treatment, and cure of mental illnesses.

The **National Science Foundation** has established an *Office of Institutional Programs* to administer grants designed to strengthen the overall scientific research and research training effort of the nation's colleges and universities. The grants are intended to provide institutions with valuable flexibility for strengthening and balancing scientific research activities without specifying the particular activities to be undertaken with the funds. Institutional grants will complement NSF support of science and science education now provided through research grants for specific projects and through fellowships.

The National Science Foundation will consider proposals during the current fiscal year for additional research projects or studies of a fundamental or general nature that may produce new insights, knowledge, or techniques applicable to scientific information systems and services. Although the foundation will consider any proposal for a project that may contribute to the general goal of improving the handling of scientific information, the following research areas are of the greatest interest at present: information needs of the scientific community, information storage and retrieval, and mechanical translation. The semiannual report *Current Research and Development in Scientific Documentation,* available from NSF, describes these projects in the United States and abroad. Address inquiries and proposals to: *Documentation Research Program,* Office of Science Information Service, National Science Foundation; Washington 25, D. C.

Applications are now being accepted in two National Science Foundation graduate-level fellowship programs: Cooperative Graduate Fellowships for the academic year 1961–1962, and Summer Fellowships for Graduate Teaching Assistants, for the summer of 1961. Applications for Cooperative Graduate Fellowships must be received by the participating institutions by November 4, 1960; applications for Summer Fellowships, December 9, 1960. Application materials can be obtained from the Graduate Dean of any participating institution or from: Fellowships Section, *Division of Scientific Personnel and Education,* National Science Foundation; Washington 25, D. C.

The **Social Science Research Council's** annual announcement describing fellowships and grants to be awarded in 1960–61 is now available (SSRC; 230 Park Avenue; New York 17, New York). Among the programs described are: Research Training Fellowships, Faculty Research Fellowships, Grants-in-Aid of Research, International Conference Travel Grants, and grants for research in the social sciences and humanities on certain foreign areas.

The **Woodrow Wilson National Fellowship Foundation** has announced the opening of competition for its 1961–1962 fellowship awards. The purpose of the Woodrow Wilson program is to combat the critical shortage of qualified college teachers by encouraging outstanding students to enter the college teaching profession. A brochure about the program may be obtained by writing to: Hans Rosenhaupt, National Director, Woodrow Wilson National Fellowship Foundation; Box 642; Princeton, New Jersey.

William W. Rozeboom has received a grant from the National Science Foundation for the project "Mediation Processes in Human Avoidance Behavior," a study in **expectation learning.**

Edward R. Ostrander, Gettysburg College, has received a grant from the National Institute of Mental Health for a research project on **impression formation,** learning more precisely how a person forms an impression of other persons.

The **James McKeen Cattell Fund** has awarded the following grants-in-aid:

Ernst G. Beier, University of Utah, "Subliminal Stimuli as Determinants of Choice"

Jack A. Chambers, Michigan State University, "Relation of Personality and Biographical Factors to Scientific Creativity"

Nathan Israeli, Long Island University, for support of studies on the creative processes of artists.

The **National Science Foundation** has awarded the following grants:

F. Attneave, University of Oregon, "Theory and Experiments on Psychophysical Measurement"

J. Berger, Stanford University, "Role Specialization in Small Groups"

N. Chomsky, Massachusetts Institute of Technology, "Structure and Use of Language"

C. B. DeSoto, Johns Hopkins University, "Conceptual Learning of Relationships"

S. Ervin, University of California, "Verbal Behavior in Bilinguals"

R. F. Fagot, University of Oregon, "Theory and Experiments on Psychophysical Measurement"

L. Festinger, Stanford University, "Implications of the Theory of Cognitive Dissonance"

J. J. Jenkins, University of Minnesota, "Associative Models and Varied Symbolic Behaviors"

R. L. Langworthy, Carleton College, "Acceptance of Innovation"

J. T. Lanzetta and **V. T. Kanareff,** University of Delaware, "Studies of Choice Behavior in Means-Goal Conflict Situations"

P. F. Lazarsfeld, Columbia University, "Latent Structure Analysis"

O. R. Lindsley, Harvard University, "Experimental Analysis of Cooperation and Competition"

M. Melbin, McLean Hospital, "Dimensions and Correlates of Role Performance"

J. Mills, Syracuse University, "Voluntary Exposure to Information"

F. Mosteller, Harvard University, "Quantitative Methods in the Social Sciences"

J. L. Myers, University of Massachusetts, "Parameters of Risk Taking"

S. I. Perloe, Yale University, "Judgment of Social Stimuli"

T. B. Roby, Tufts University, "Individual Traits in Decision Making"

M. Rokeach, Michigan State University, "Cognitive Organization and Modification"

M. E. Shaw, University of Florida, "Use of Information in Small Groups"

J. B. Sidowski, San Diego State College, "Learning in a Minimal Social Situation"

R. F. Winch, Northwestern University, "Identification of Children"

Public Health Research grants have been awarded to:

R. W. Leary and **R. F. Thompson,** University of Oregon Medical School, "Cortical Mapping, Stimulation, and Ablation in Relation to Social Behavior and Learning in Different Species of Monkeys"

R. A. Littman, University of Oregon, "Social Behavior in Rats: Studies in Escape and Avoidance"

R. A. Littman and **R. W. Leary,** University of Oregon, "Immediate and Delayed Effects of Severe Electric Shock"

Donald H. Bullock has been awarded a **Special Research Fellowship** by the National Institute of Mental Health, United States Public Health Service, for research in the Department of Psychology at Bryn Mawr College.

I am preparing a history of the **behavioristic movement in American** to date. It will devote a good deal of attention to the life and work of the late John B. Watson. There seems to be a dearth of personal letters and correspondence with others in the field of psychology and the related sciences. *I would very much appreciate having copies,* in the form of photostats or similar reproductions (for which I will pay), *of correspondence with or by the late John B. Watson.* Also, I would appreciate recollections, anecdotes, citations of pertinent articles or book reviews in out-of-the-way publications, and other information about Watson or the behavioristic movement. Please write to: Cedric A. Larson; Department of Psychology, Rutgers University; Newark 2, New Jersey.

A group of four Wisconsin psychologists participated as **professional witnesses** at a highly publicized murder trial in 1959. Three of these testified for the defense and one for the prosecution. As one might imagine a variety of ethical issues are still being discussed in the psychological community. A desire has arisen to share the views of the participants and others at an APA convention. *At this time inquiry is made of any psychologists who have had similar experiences giving testimony in major trials at which other psychologists testified for the opposing side.* Communications may be addressed to: Samuel H. Friedman, Chief Clinical Psychologist; Veterans Administration Center; Wood, Wisconsin.

Persons interested in the formation of a **society for client-centered therapy and counseling** *are asked to write to:* Alexander Bassin; c/o Yeshiva University, Graduate School of Education; 110 West 57 Street, New York 19, New York.

The **animal research laboratories** at the University of Oregon have been expanded. The National Science Foundation awarded a grant for reconstruction of physical facilities. The added space will be divided between the enlargement of primate and rat colony areas and the creation of additional laboratory cubicles and research offices.

A new **Rehabilitation Counselor Training Program** has been approved by the United States Office of Vocational Rehabilitation at the University of Pittsburgh. Stipends are awarded by the USOVR. For further information, write to: L. Leon Reid, Coordinator, RCTP; Department of

Special Education and Rehabilitation, University of Pittsburgh; Pittsburgh 13, Pennsylvania.

The topic of the third Annual Symposium of the Veterans Administration Hospital, Sheridan, Wyoming, on May 19–20, 1960 was **"Management, Care, or Treatment."**

On May 23, 1960, the Department of Psychology at Topeka State Hospital, Kansas, conducted a **Symposium on Clinical Inference.**

A Conference on Military Psychology was held under the auspices of the Defence Research and Development Organization of the Defence Ministry, Government of India, at Landour, Mussoorie, on June 6–8, 1960.

Special education for mentally deficient children was one of the main themes of the twenty-third **International Conference on Public Education** held on July 6–15, 1960 in Geneva, Switzerland, under the sponsorship of UNESCO and the International Bureau of Education.

Via a transoceanic telephone hook-up, a **conference on mental health problems of the aging** was held on August 12, 1960 between a panel at the Carnegie Endowment for Peace (46 Street and First Avenue, New York City) and a panel in Edinburgh, Scotland, at the meetings of the World Federation for Mental Health.

The Training School at Vineland will hold on September 26, 1960 a working conference on the **"Development of Parental Aids for the Retarded in Leisure and Work Activities."**

A weekly research seminar on **international conflict and peace** will be held at Washington University during the fall semester. The seminar is part of a research program administered by the Social Science Institute of the university.

The Community Guidance Service, of New York City, will open in October 1960 its **Institute for Practicing Psychotherapists and Allied Professionals,** an advanced level institute geared to the needs of the psychological practitioner. For further information, write to: IPP; 140 West 58 Street; New York 19, New York.

The tenth **Annual Instrument Symposium and Research Equipment Exhibit** will be held October 3–6 and October 4–7, 1960 at the National Institutes of Health, Bethesda, Maryland.

The **Society for Clinical and Experimental Hypnosis** will hold its Annual Meeting on October 6–7, 1960 in Washington, D. C. For further information, write to: Lester S. Blumenthal; 5315 Connecticut Avenue, N.W.; Washington 15, D. C.

The topic of the fifth Annual Conference of the **American Academy of Psychotherapists** in Cleveland, Ohio, on October 15–16, 1960 will be "Psychotherapy—Healing or Growth." For further information, write to: Bill J. Barkley; 1856 Coventry Road; Cleveland Heights 18, Ohio.

A symposium on Paul Federn's **"Egopsychology and Its Applications"** will be held on October 22, 1960 at the New York Academy of Medicine.

The theme of the twentieth Annual Meeting of the **Society for the Scientific Study of Religion** on October 28–29, 1960 in New York City will be major methodological problems in the study of religion by behavioral sciences. For further information, write to: James E. Dittes, Secretary, SSSR; Yale University, 409 Prospect Street; New Haven 11, Connecticut.

The **American Psychosomatic Society** will hold its eighteenth Annual Meeting in Atlantic City, New Jersey, on April 28–30, 1961. The Program Committee would like to receive titles and abstracts of papers for consideration for the program no later than December 1, 1960. The time allotted for presentation of each paper will be 20 minutes. Abstracts of no more than two typewritten pages, in nine copies, should be submitted to: Morton F. Reiser; 265 Nassau Road; Roosevelt, New York.

An **International Symposium on the Transmission and Processing of Information** is being planned for September 6–8, 1961 at the Massachusetts Institute of Technology. Submission of papers is invited: 500–1000 word abstracts by 1 January 1961 and full-length papers by 1 April 1961. Abstracts and papers should be submitted to: R. M. Fano, Chairman of the Organizing Committee; Research Laboratory of Electronics, MIT; Cambridge 39, Massachusetts.

The **Norwegian Association for Medical Child Psychology** invited George R. Bach, of the Institute of Group Psychotherapy, Beverly Hills, California, to give a three-day seminar on group psychotherapy in Oslo, Norway, on August 20–22, 1960. This was the first of a series of seminars honoring the memory of the late Nic Waal.

The first Federal Congress of Yugoslav Psychologists was held on May 12–15, 1960 at Bled in Slovenia. This is the first large venture of the **Yugoslav Psychological Association,** with regional branches established in Serbia, Croatia, and Slovenia. Six topics were discussed at the plenary sessions: effects of pharmacological agents on man's work capacity (Zoran Bujas), contemporary problems of educational psychology (Borislav Stevanović), the role of psychology in socialist society (Andrej Dolinar), the training of psychologists (Miloš Jovičić), the educational value of films (Mihajlo Rostohar), and the audio-visual approach (Anton Terstenjak). The author of the fifth paper is the senior statesman of Yugoslav psychology, who for many years served as Professor of Psychology at Brno, Czechoslovakia. Six section meetings were held, devoted to industrial (2 meetings), clinical (2 meetings), developmental and educational, and general and social psychology. It is hoped that the proceedings will be published and that summaries and abstracts of the individual papers will be made available in other languages. The titles of many of the papers (including a comparative analysis of Rorschach records, impact of the method of application of a questionnaire on the results obtained, or the role of the clinical psychologist in and out of the hospital) would sound quite familiar to the American reader. It will be interesting to examine in detail the approach, the method of evaluation of the data, and the theoretical framework of the Yugoslav psychologists, working as they are under unique sociopolitical conditions.—JOSEF BROŽEK, *Department of Psychology, Lehigh University.*

Convention Calendar

American Psychological Association: August 31–September 6, 1961; New York, New York

For information, write to:

Janice P. Fish
American Psychological Association
1333 Sixteenth Street, N.W.
Washington 6, D. C.

Southern Society for Philosophy and Psychology: March 30–April 1, 1961; Atlanta, Georgia

For information, write to:

Dan R. Kenshalo
Florida State University
Tallahassee, Florida

Eastern Psychological Association: April 7–8, 1961; Philadelphia, Pennsylvania

For information, write to:

Carl H. Rush
P. O. Box 252
Glenbrook, Connecticut

Southeastern Psychological Association: April 13–15, 1961; Gatlinburg, Tennessee

For information, write to:

Susan W. Gray
Box 30
George Peabody College for Teachers
Nashville 5, Tennessee

Midwestern Psychological Association: May 4–6, 1961; Chicago, Illinois

For information, write to:

I. E. Farber, Secretary-Treasurer
Midwestern Psychological Association
Department of Psychology
State University of Iowa
Iowa City, Iowa

American Public Health Association: October 31–November 4, 1960; San Francisco, California

For information, write to:

Berwyn F. Mattison
1790 Broadway
New York 19, New York

American Association for the Advancement of Science: December 26–31, 1960; New York, New York

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